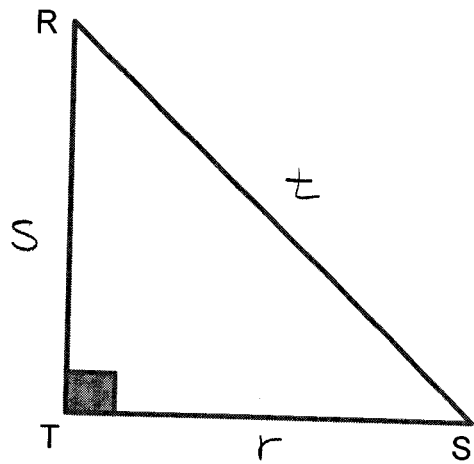
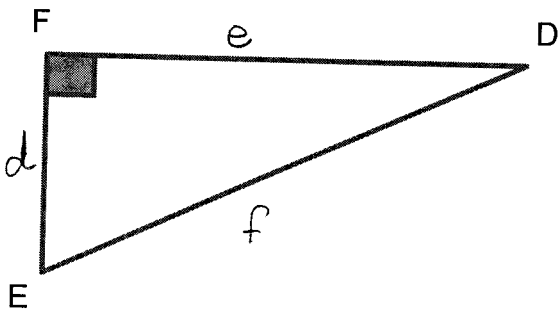
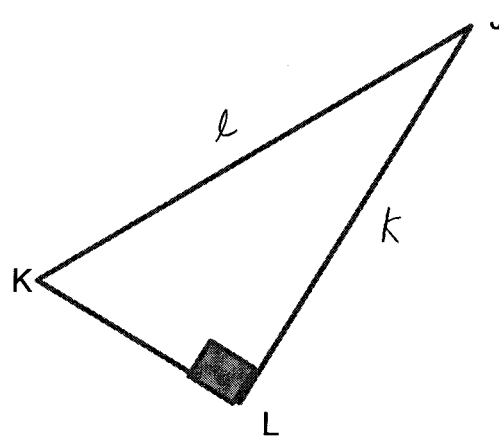
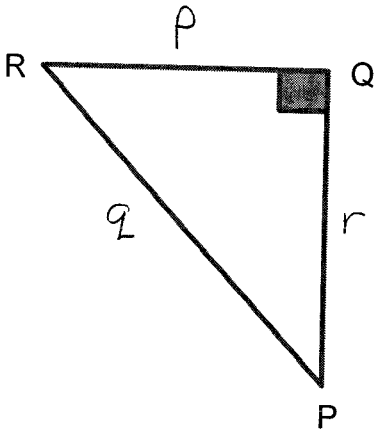
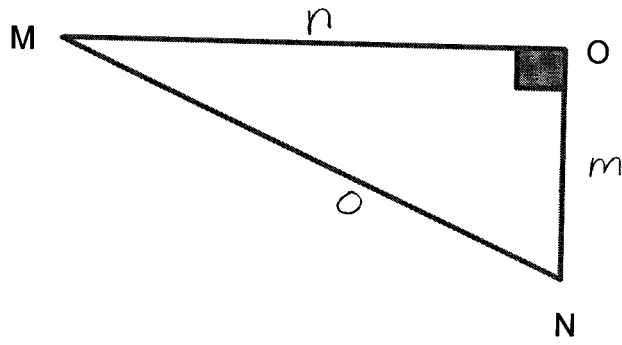
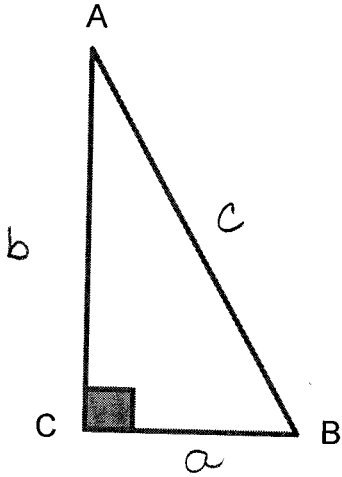


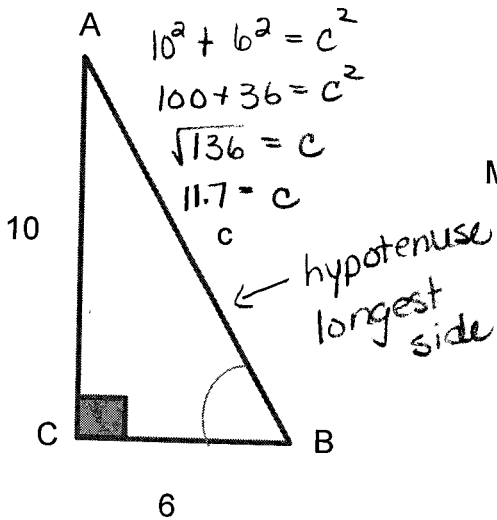
1. Label the lower case letter opposite each angle on each triangle.



Math 10C

Trigonometry - Notes

2. Find the missing side using Pythagorean Theorem.



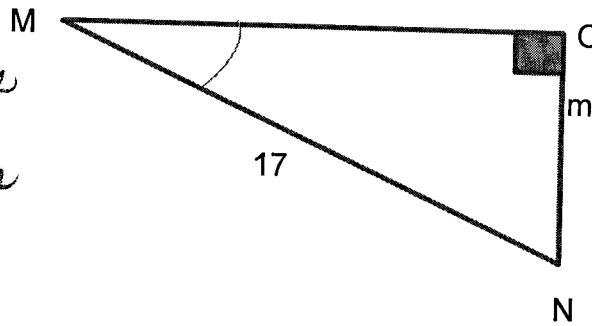
$$14^2 + m^2 = 17^2$$

$$17^2 - 14^2 = m^2$$

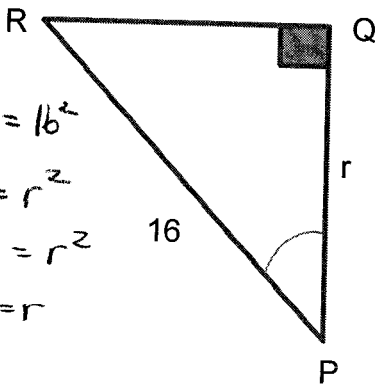
$$289 - 196 = m^2$$

$$\sqrt{93} = m$$

$$149.6 = m$$



8



$$8^2 + r^2 = 16^2$$

$$16^2 - 8^2 = r^2$$

$$256 - 64 = r^2$$

$$\sqrt{192} = r$$

$$13.9 = r$$

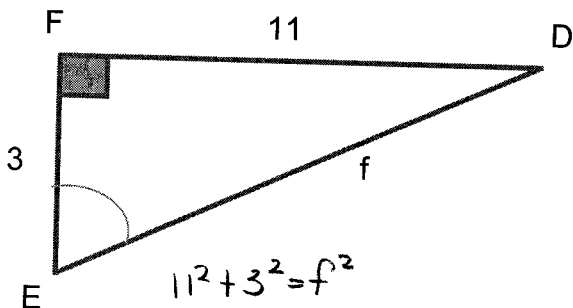
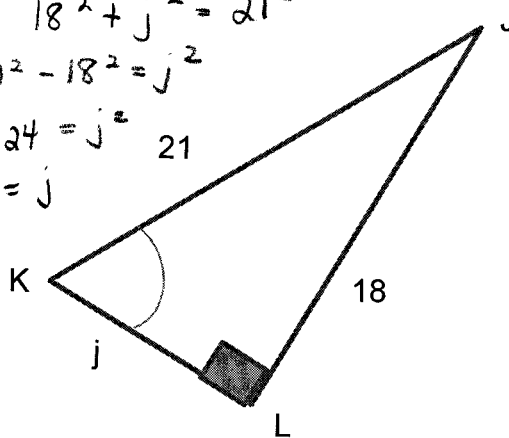
$$18^2 + j^2 = 21^2$$

$$21^2 - 18^2 = j^2$$

$$441 - 324 = j^2$$

$$\sqrt{117} = j$$

$$10.8 = j$$

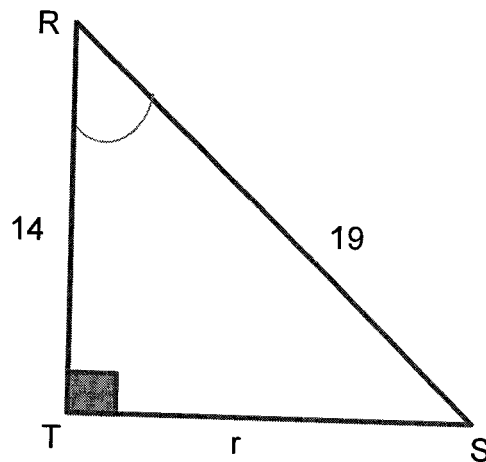


$$11^2 + 3^2 = f^2$$

$$121 + 9 = f^2$$

$$\sqrt{130} = f$$

$$11.4 = f$$



$$14^2 + r^2 = 19^2$$

$$19^2 - 14^2 = r^2$$

$$361 - 196 = r^2$$

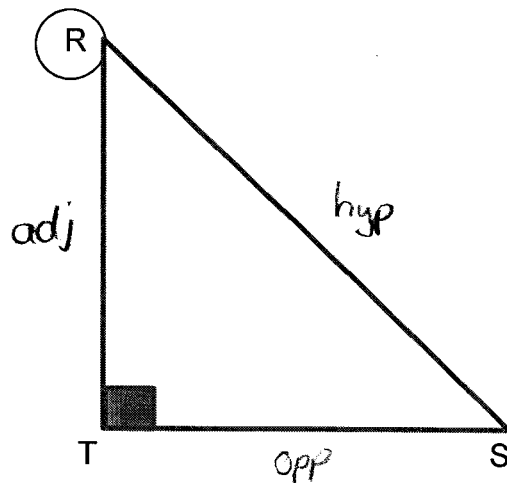
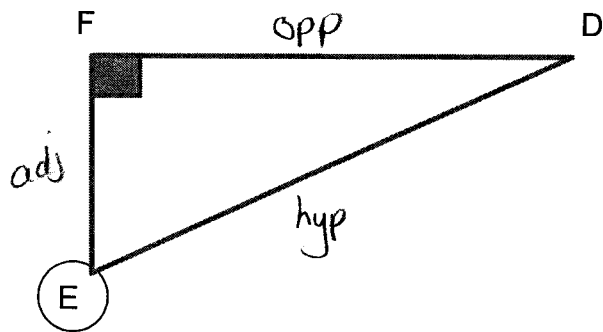
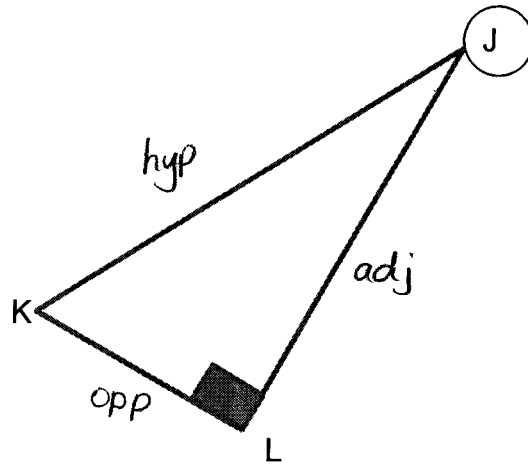
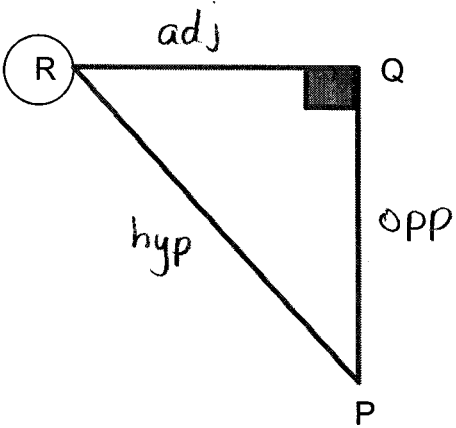
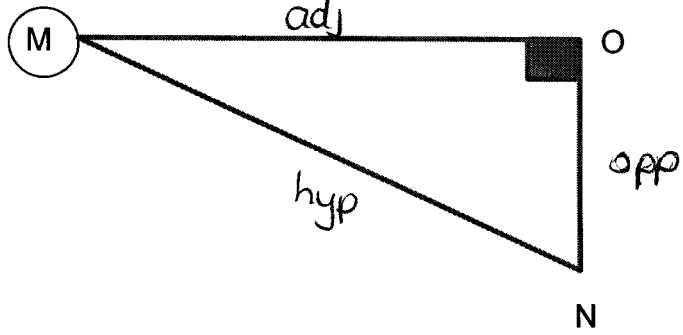
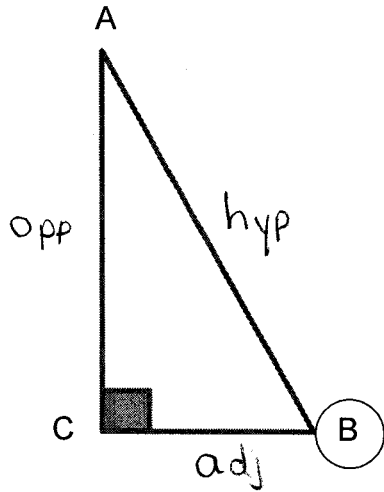
$$\sqrt{165} = r$$

$$r = 12.8$$

Math 10C

Trigonometry - Notes

3. Label triangles from the circled angle as either opposite, hypotenuse, or adjacent.



$$\sin \theta = \frac{o}{h}$$

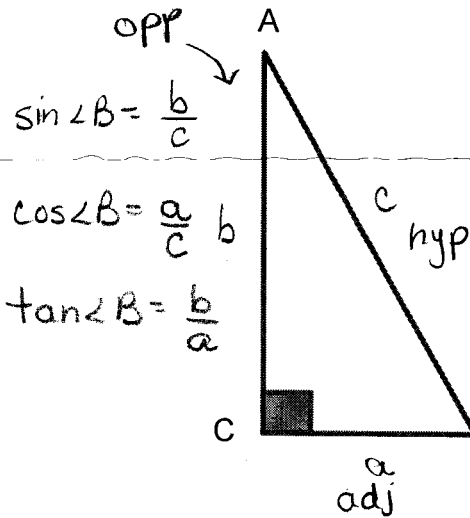
$$\cos \theta = \frac{a}{h}$$

$$\tan \theta = \frac{o}{a}$$

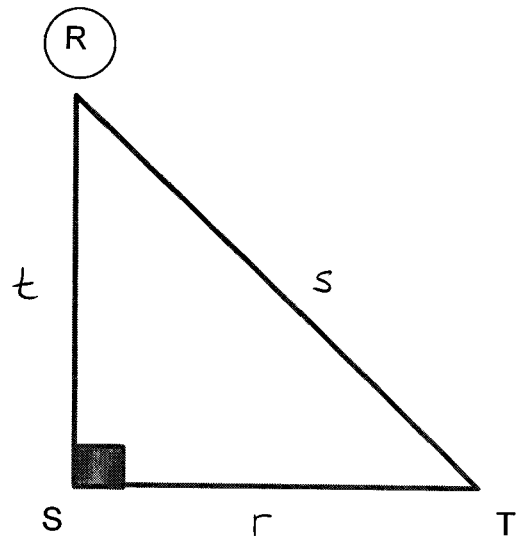
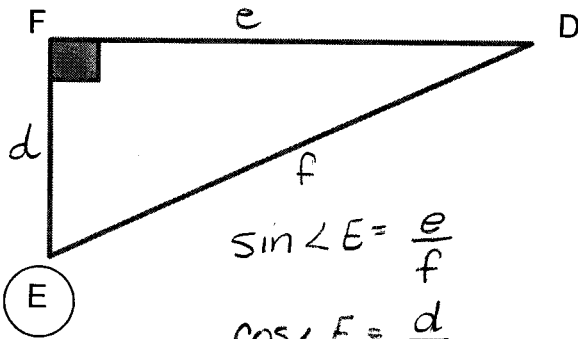
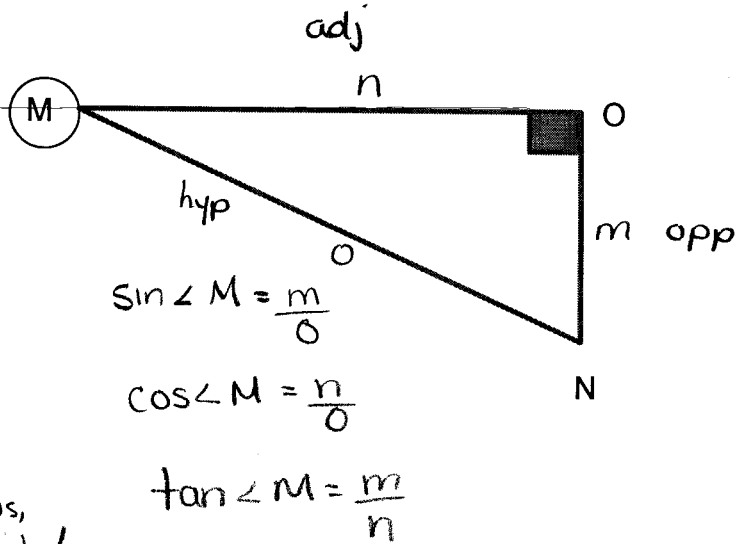
Math 10C

Trigonometry - Notes

4. From the circled angle, find Sin (), Cos (), Tan ().



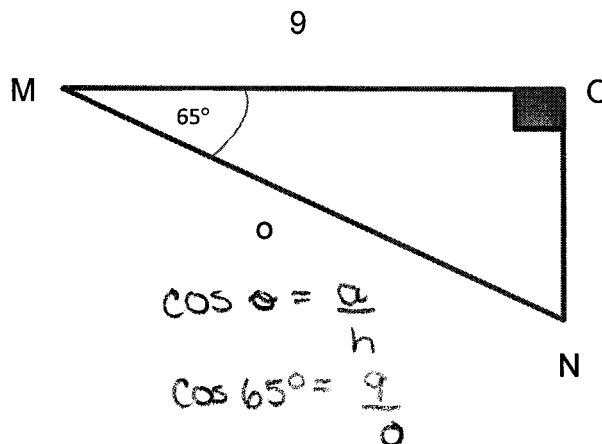
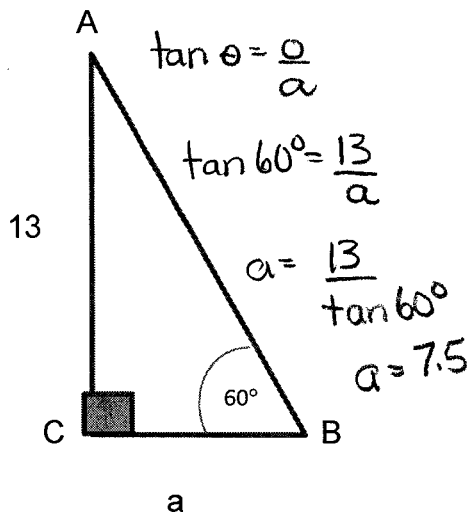
Determine sin, cos, tan from the circled angle.



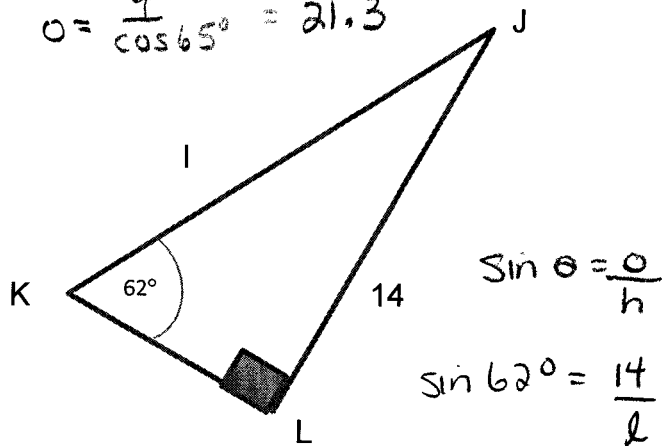
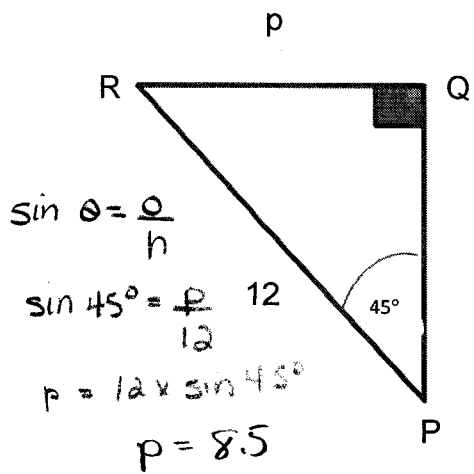
Math 10C

Trigonometry - Notes

5. Find the missing sides.

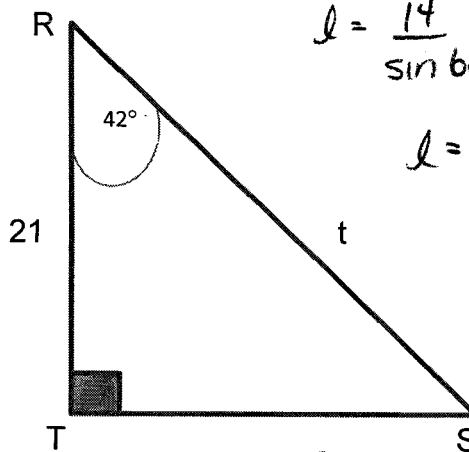
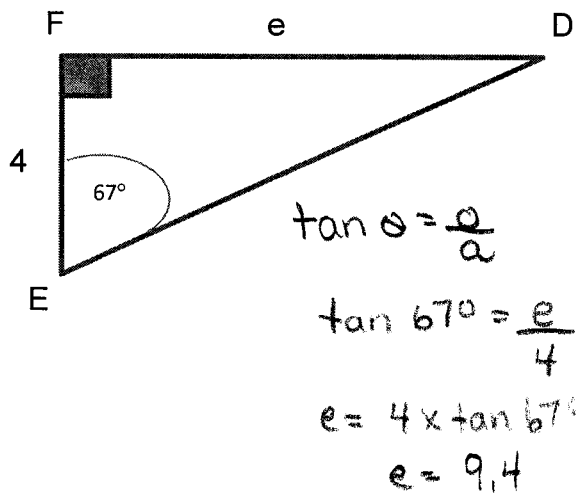


$o = \frac{9}{\cos 65^\circ} = 21.3$



$l = \frac{14}{\sin 62^\circ}$

$l = 15.9$



$\cos \theta = \frac{a}{h}$

$\cos 42^\circ = \frac{21}{t}$

$t = \frac{21}{\cos 42^\circ} \quad t = 28.3$

Calculator $\boxed{2ND}$ $\boxed{\begin{matrix} \sin \\ \cos \\ \tan \end{matrix}}$

↑
pick one

$\sin^{-1}(8/16) \rightarrow \boxed{ENTER}$
↑
computer screen

Math 10C
Trigonometry - Notes

6. Find an angle to the nearest degree.

