a)
$$(3a^2b^3)^2$$

b)
$$\left(\frac{4a}{5b}\right)^2$$

$$c)\left(\frac{16 a^2 b^5}{20ab^3}\right)^3$$

d)
$$\left(-\frac{3a}{2b}\right)^0$$

e)
$$\left(\frac{5a^5}{25a^6}\right)^2$$

f)
$$(7a^2b^5)(-3ab^6)$$

g)
$$\frac{(2a)^3}{(6ab)^{-2}}$$

h)
$$\frac{10a^7b^9c^6}{5a^6b^{10}c^8}$$

$$i) \ \frac{-3a^{-7}b^{-11}}{12a^4b^{-3}}$$

$$j) \left(\frac{4a^2b^3}{8ab^5}\right)^{-2}$$

1.
$$(25 a^4 b^2)^{\frac{1}{2}}$$

2.
$$(8a^3b^6)^{\frac{1}{3}}$$

$$3. \left(\frac{25p^8q^{-2}}{49p^4q^4}\right)^{\frac{1}{2}}$$

$$4. \left(\frac{50x^2y^4}{2x^4y^8}\right)^{\frac{1}{2}}$$

5. A cube has a volume of 200 cm^3 . Write the edge length of the cube as radical in simplest form. V = lwh or $V = l^3$ Express your answer as $a\sqrt{b}$.

6. Determine the **edge length** of a square that has an area of 529 cm². Express your answer as a mixed radical in lowest terms. $A = l^2$