

Simplify:  $\sqrt[3]{16a^4b^3}$

Simplify:  $\sqrt[3]{56x^4y}$

Simplify:  $\sqrt[3]{54a^7b^4}$

Simplify:  $\sqrt[3]{81ab^4}$

Simplify:  $2\sqrt[3]{16a^3b^4c^5}$

What is the product of  $\left(\frac{2}{5}x - \frac{3}{4}y^2\right)$  and  $\left(\frac{2}{5}x + \frac{3}{4}y^2\right)$ ?

- 1)  $\frac{4}{25}x^2 - \frac{9}{16}y^4$
- 2)  $\frac{4}{25}x - \frac{9}{16}y^2$
- 3)  $\frac{2}{5}x^2 - \frac{3}{4}y^4$
- 4)  $\frac{4}{5}x$

If  $x$  is a real number, express  $2xi(i - 4i^2)$  in simplest  $a + bi$  form.

The complex number  $c + di$  is equal to  $(2 + i)^2$ . What is the value of  $c$ ?

Express  $(3 - 2i)^2$  in  $a + bi$  form.