

WARRIOR #5

F/M/V:

EDRAC 7th

Simplify.

1) $x^{-2} \cdot x^{-4} \cdot x^3$

2) $\frac{x^6 \cdot x^{-1}}{x^{-7}}$

3) $\frac{x}{(x^5)^2}$

4) $(x^3)^2 \cdot (x^{-5})^3$

5) $\frac{x \cdot x}{x^0}$

6) $\left(\frac{x^2 \cdot x^5 \cdot (x^{-2})^3}{(x^5)^2 \cdot (x^3)^{-1}} \right)^0$

- 1) Deanna knows that the floor in her kitchen is a square with an area of 324 ft^2 . What is the PERIMETER of her kitchen floor?
- 2) Joey wants to put a fence around THREE sides of a square garden that has an area of 225 square feet. How much fencing does he need?
- 3) The James family has a rug that is 132 ft^2 . They have 3 bedrooms in their house. Room #1 is 11×11 feet. Room #2 is 10×12 feet. Room #3 is 13×13 feet. Which room(s) will the rug fit in?
- 4) A square computer icon contains 676 pixels. How many pixels tall is the icon?

simplify.

$$1) 3\sqrt{25} + 4$$

$$2) \sqrt{\frac{64}{49}}$$

$$3) 36 - \sqrt{36}$$

$$4) \sqrt{\frac{64}{4}}$$

$$5) \sqrt{121} + 16$$

$$6) \sqrt{32+17}$$

$$7) -(\sqrt{36} \sqrt{9})$$

$$8) \sqrt{\frac{25}{4}} + \frac{1}{2}$$

Solve the equations using the traditional method and showing all the inverse operations.

$$1) 2x - 1 = 5$$

$$2) \frac{x}{3} + 4 = 9$$

$$3) 4x + 3 = 19$$

$$4) \frac{x}{5} - 2 = 6$$

$$5) 48 = 3 + 5x$$

$$6) -2 = -6 + \frac{x}{7}$$