

2 A Bit of Review Practice Problems

1. In each of the following, list the order in which the operations are being applied to x .

(a) $5(3x + 1)^2$

(b) $\frac{5 - x}{17}$

2. In each of the following, list the order in which the operations are being applied to c .

(a) $a(bc + d)^2$

(b) $d^2 - \pi c$

3. In each of the following, list the order in which the operations are being applied to d .

(a) $a(bc + d)^2$

(b) $d^2 - \pi c$

4. **TRUE or FALSE**

(a) _____ 11 is the only square root of 121.

(b) _____ $\sqrt{121} = \pm 11$

(c) _____ $\sqrt{3^2 + 4^2} = \sqrt{3 + 4}$

5. Simplify.

(a) $\sqrt{75}\sqrt{12}$

(b) $\frac{\sqrt{567}}{\sqrt{45}}$

(c) $\sqrt{2535} - \sqrt{135}$.

6. Find the exact value of the expression. You may not use parentheses in your answer. Which of the expressions are positive?

(a) $-(\sqrt{245} - 13)$

(b) $-(x - 6)$ if $x > 6$

(c) $-(x - 6)$ if $x < 6$

(d) $-((\pi - 3) - 1)$