PRACTICE

REVIEW/PREVIEW SIMPLIFY

1.
$$x + 0.2x$$

2.
$$x - 0.2x$$

3.
$$x + 0.8x$$

4.
$$x + (1/4)x$$

5.
$$x - (1/4)x$$

ERAVIAND EQUAL RATIOS

The equations below all involve two equal ratios. Find the value of x that will make the ratios equal. You may want to use trial and error with your calculator.

6.
$$\frac{x}{4} = \frac{6}{1}$$
 7. $\frac{3}{x} = \frac{5}{7}$

7.
$$\frac{3}{x} = \frac{5}{7}$$

8.
$$\frac{x}{3} = \frac{5}{7}$$

8.
$$\frac{x}{3} = \frac{5}{7}$$
 9. $\frac{3}{1} = \frac{6}{x+7}$

10.
$$\frac{4}{5} = \frac{6}{x+7}$$

REVIEW/PREVIEW EQUATIONS

11. For each equation, use trial and error to find a value of n that makes it true.

a.
$$3n + 10 = 5n$$

b.
$$5n + 10 = 3n$$

c.
$$7n + 10 = 8n$$

d.
$$8n + 10 = 7n$$

12. Use trial and error or the cover-up method to solve these equations.

a.
$$2(x+5)=8$$

b.
$$5 + 2(x + 4) = 19$$

c.
$$3(2x + 4) - 7 = 11$$

d.
$$-4(10x - 3) - 6 = -14$$

13. Find a positive integer that satisfies each equation.

a.
$$3n - 1 = 47$$

b.
$$n^2 - 5 = 59$$

14. Find a negative integer and a positive integer that satisfy the equation

$$n^2 - n = 20$$
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