

TSI Review – Factoring and Fractions

1. Factor:

$$8x^2 + 18x - 5 = 0$$

Factors: _____

2. Factor and solve:

$$b^2 - 25 = 0$$

Factors: _____

Solution(s): _____

3. Solve:

$$-3x \geq -21$$

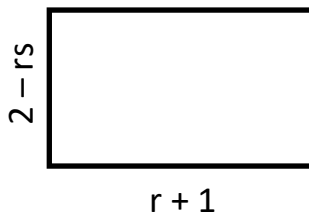
Answer: _____

4. Solve:

$$\frac{x}{3} + \frac{5x}{6} < 7$$

Answer: _____

5. Find the area:



Answer: _____

6. Solve:

$$x^2 + x - 12$$

Solution(s): _____

7.

$$f(x) = \frac{2x}{2x+1}$$

- A. $f(4) < f(7)$
- B. $f(7) < f(4)$
- C. $f(0) = 1$
- D. $f(1) = 3$

8. Simplify:

$$\frac{x + x^3}{x}$$

Answer: _____

9. Is there a common factor? If so, what is the factor?

$$10x^2 + 9x - 9$$

$$2x^2 + x - 3$$

Answer: _____

10. Factor Completely:

$$4x^2 + 2x - 20$$

Answer: _____

11. Solve:

$$m = 3/2 \quad n = -m$$

$$m - n ?$$

Answer: _____