SHOW ALL WORK!!!

Multiply:

1.
$$(2x^2-3)(7x^2+3x-2)$$

Factor:

2.
$$(2x^2 + x - 15)$$

Simplify:

$$3. \frac{x-10}{3x-15} \cdot \frac{8x-40}{x^2-9x-10}$$

$$4.\,\frac{2b^2-4b-30}{b-5} \div \frac{2}{4b+10}$$

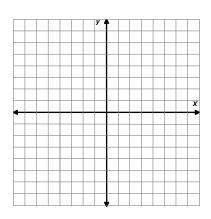
5. Solve the system of inequalities by graphing

$$3x + 2y > -2$$

$$x-2y\geq 6$$

6. Solve using the quadratic formula.

$$5x^2 + 4x = 7$$



7. Solve for x:

$$7x - (4 + 3x) = 6(x - 5) + 2$$

8. Solve. Write answer as an ordered pair.

$$2x + 3y = 85$$

$$x - 24y = 34$$

Multiply:

9.
$$(2x^2 + 5)(3x^2 + 3x - 2)$$

Factor:

10.
$$(2x^2 - 3x - 35)$$

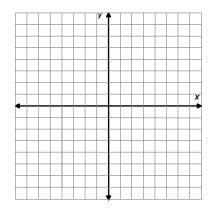
Simplify:

$$11. \frac{x-5}{4x+20} \cdot \frac{4x+8}{x^2-25}$$

$$12.\,\frac{4b^2-8b-12}{b-5} \div \frac{b^2+3b+2}{2b-10}$$

13. Solve the system of inequalities by graphing

$$3x + 2y > -6$$
$$x - 2y \ge 4$$



14. Solve using the zero product property. $2x^2 + 3x = 9$

$$2x^2 + 3x = 9$$

15. Solve for x:

$$4(x-25) + 22 = 7(x-27)$$

16. Solve. Write answer as an ordered pair.

$$x - 5y = 80$$
$$3x + 15y = 90$$