Check evens from yesterday:

8. x=real numbers

10.
$$t \neq -2$$

12.
$$x > 1$$

14.
$$x \ge 0$$

($x \neq -1$ isn't necessary since it is already excluded from $x \geq 0$)

Today's assignment: 1.4 #34,36,40,42,46,86 **33-530dd**, 85,87,88

Factor and Simplify

34.
$$\frac{2x+1}{2x^{2}+x-15} \div \frac{6x^{2}-x-2}{x+3} = \frac{2x+1}{2x^{2}+1x-15} \cdot \frac{x+3}{6x^{2}-1x-2}$$
$$= \frac{(2x+1)}{(2x-5)(3x-2)} \cdot \frac{(2x+1)(3x-2)}{(2x-5)(3x-2)}$$

Simplify using a common denominator:

40.
$$\frac{3x-2}{(x+1)} = \frac{3x-2-2x-2}{x+1}$$

$$\frac{3x-2}{x+1} - \frac{2(x+1)}{x+1} = \frac{x-4}{x+1}$$

Simplify using a common denominator:

46.
$$\frac{x}{(x+1)^2} + \frac{2(x+1)}{(x+1)(x+1)}$$

$$= \frac{\chi + 2\chi + 2}{(\chi + 1)^2} = \underbrace{\frac{3\chi + 2}{(\chi + 1)^2}}$$

R E M I N D E R S

- Check odd answers as you progress through the assignment.
- If something is incorrect, try to find your error and fix it...or ask someone how they solved the problem.
- Homework (written and online) is graded on completion and is worth 5 points per assignment.
- Late work is not accepted unless you come in during tutorial to finish it. Two late assignments per unit allowed.