## Check evens from yesterday:

## 8. $x=r e a l$ numbers

$$
\text { 10. } t \neq-2 \quad \text { 12. } x>1
$$

$$
\text { 14. } x \geq 0
$$

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

Today's assignment: 1.4 \#34,36,40,42,46,86 33-53odd, 85,87,88
Factor and Simplify
34.

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

Simplify using a common denominator:

$$
\text { 40. } \begin{aligned}
& \frac{3 x-2}{(x+1)}-\frac{(x+1)}{1(x+1)}= \frac{3 x-2-2 x-2}{x+1} \\
& \frac{3 x-2}{x+1}-\frac{2(x+1)}{x+1}=\frac{x-4}{x+1}
\end{aligned}
$$

Simplify using a common denominator:
46. $\frac{x}{(x+1)^{2}}+\frac{2 x}{(x+1)(x+1)}$

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

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.

