# Alg 1 Block Week 13Warm UpSimplify each expression. $1. \sqrt{5} \left(3 + 2\sqrt{2}\right)$ $2. \frac{\sqrt{32}}{\sqrt{20}}$

3. 
$$\frac{x+7}{8x^2-12x} \cdot (4x^2-9)$$
 4.  $8\sqrt{48} - \sqrt{64}$ 

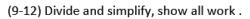
5. 
$$9\sqrt{18} - \sqrt{2} + 2$$
 6.  $\frac{20 - 4k}{2k^2 - 7k - 15}$ 

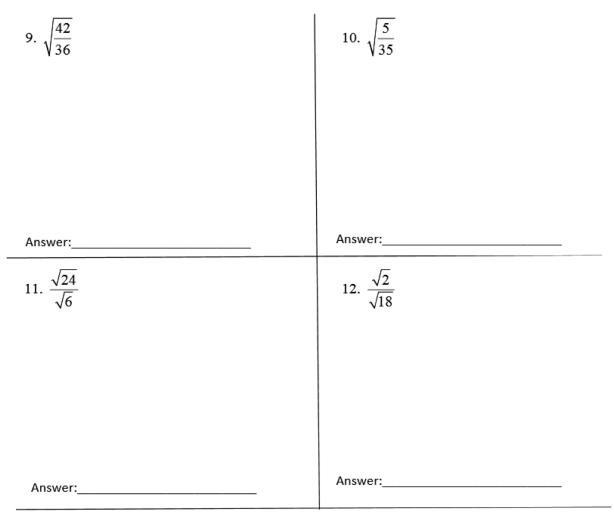
7. 
$$\frac{x}{x-3} \cdot \frac{2x-6}{x-2}$$
 8.  $\frac{3x^2}{x+2} \cdot \frac{x^2+3x+2}{x}$ 

### A1 S2 w13d3 block More 11-1 Simplfy Rational Expressions

Algebra 1 Wk 13 WW Block Radical WKsht #2 Name			
CW (before quiz) - this is just like today's quiz! (1-4) Simplify completely, show ALL work:			
1. $\sqrt{7} - 3\sqrt{7} + 7$	2. $8\sqrt{11} + 5\sqrt{11} - 2\sqrt{13} + 5\sqrt{13}$		
Answer:	Answer:		
3. $\sqrt{8} - 5\sqrt{2}$	4. $2\sqrt{24} + 3\sqrt{54}$		
Answer:	Answer:		
(5-8) Multiply & simplify, show all work			
5. $\sqrt{2}(3-2\sqrt{6})$	6. $\sqrt{3}(3\sqrt{3}-7)$		
Answer:	Answer:		
7. $(\sqrt{10} + 7)(\sqrt{10} - 4)$	8. $(2\sqrt{5}+6)(2\sqrt{5}-6)$		
Answer:	Answer:		

#### A1 S2 w13d3 block More 11-1 Simplfy Rational Expressions





(13-14) Solve and check your answer:

13.  $2\sqrt{x} + 5 = 15$  14.

14.  $\sqrt{2-x} = x$ 

Answer:\_\_\_\_\_

Answer:\_\_\_\_\_

#### A1 S2 w13d3 block More 11-1 Simplfy Rational Expressions

Solving Quadratics 4 ways #3 Alg 1 Week 13 block 1. Solve by graphing:  $x^2 - 2x - 3 = 0$ What is the vertex Solutions:\_\_\_\_\_

2. Solve by completing the square.

 $x^2 - 2x - 3 = 0$ 

Solutions:\_\_\_\_\_

3. Solve using the quadratic formula.  $x^2 - 2x - 3 = 0$ 

Solutions:

4. Solve by factoring and the zero product property.  $x^2 - 2x - 3 = 0$ 

Check:

Solutions:\_\_\_\_\_

## HW: Pg 667: 9, 11, 15, 16, 31, 33

Simplify each expression. State any excluded values.

See Problems 1, 2, and

	9. $\frac{4x^3}{28x^4}$	
11. $\frac{2p-24}{4p-48}$		<b>13.</b> $\frac{3x+6}{3x^2}$
	15. $\frac{2b-8}{b^2-16}$	

Simplify each expression. State any excluded values.

$2r^2 + 9r - 5$	$5t^2 + 6t - 8$
<b>31.</b> $\frac{2r^2 + 9r - 5}{r^2 + 10r + 25}$	$\frac{33}{3t^2+5t-2}$