Unit 5 Part

Lesson 5

Solving Equations by Factoring

Lesson 8 → Solving Equations by Factoring

Solve each equation:

1.
$$x + 5 = 8$$

 $-5 - 5$
 $x = 3$

2.
$$x - 6 = -9$$

+ $(x + 6)$

3.
$$2x + 4 = 10$$

4.
$$5x - 1 = 9$$

$$x =$$

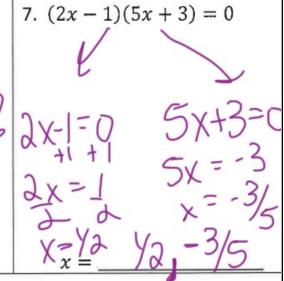
> Solve each set of equations:

5.
$$(x-5)(x+3) = 0$$

 $X-5=0$ $X+3=0$
 $X=5$ $X=-3$

6.
$$(2x+1)(x+6) = 0$$

 $2x+1=0$
 $2x+1=0$
 $2x=-1$
 $x=-6$
 $x=-6$



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11.
$$2x^{2} + 5x - 12 = 0$$
 $X^{2} + 5x - 12 = 0$
 $X^{2} + 5x - 24$
 $X^{2} + 11x - 7 = 0$
 $X^{2} - 12 + 10$
 $X^{2} -$

$$3x-2=0$$
 $+2+2$

$$\frac{3}{3} \times = 2$$

$$\frac{3x-1}{3}$$

$$X=2/3$$

$$\chi = \frac{1}{3}$$



$$14.\sqrt{x^{2}-x^{2}}=0$$

$$(x+5)(x-5)=0$$

$$x+5=0$$

$$x+5=0$$

$$x=5$$

$$x=-5$$

$$x = \frac{-5}{5}$$

15.
$$\sqrt[9x^2-4]{}=0$$
 $(3x+2)(3x-2)=0$
 $(2x+2)(3x-2)=0$
 $(3x+2)(3x-2)=0$
 $(3x+3)(3x-2)=0$

$$x = \frac{-2/3}{3}, \frac{2/3}{3}$$

16.
$$3x^{\frac{5}{2}} + 12x = 0$$

$$3x(x+4) = 0$$

$$3x = 0$$

$$x+4 = 0$$

$$x = 0$$

x = 0

$17. 2x^2 = 6x$ $-(y 6) \times$
$2x^{2}-6x=0$
2x(x-3)=0
x = 0.3
19. $5x^2 - x - 4 = 0$

18.
$$3x^{2} - 7x - 6 = 0$$

$$x = \frac{20}{4x^{2} + 7x = 2}$$

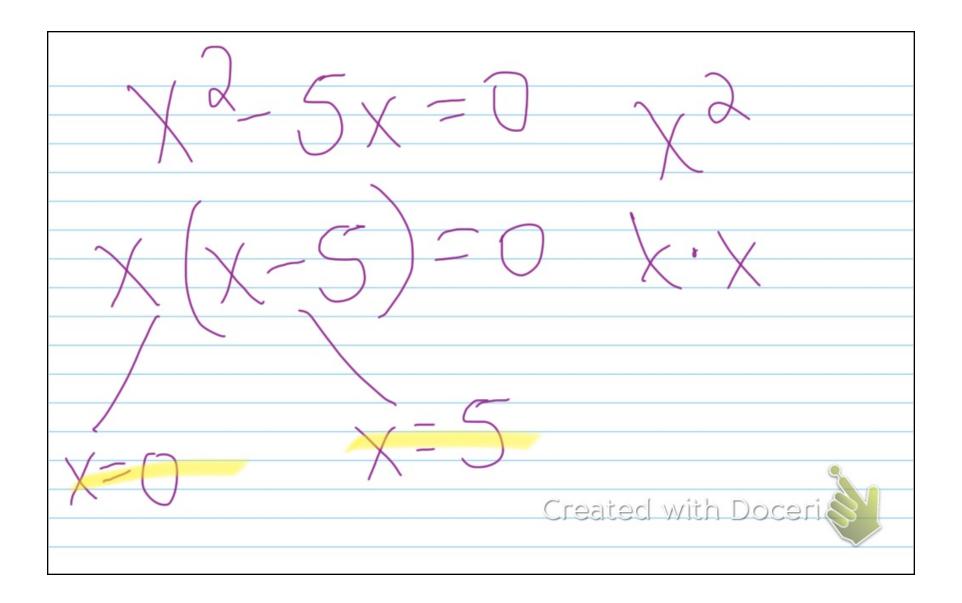
$$(x+3)(4x-6) = 0$$

$$(x+3)(4x-6) = 0$$

$$(x+3)(x-1) = 0$$

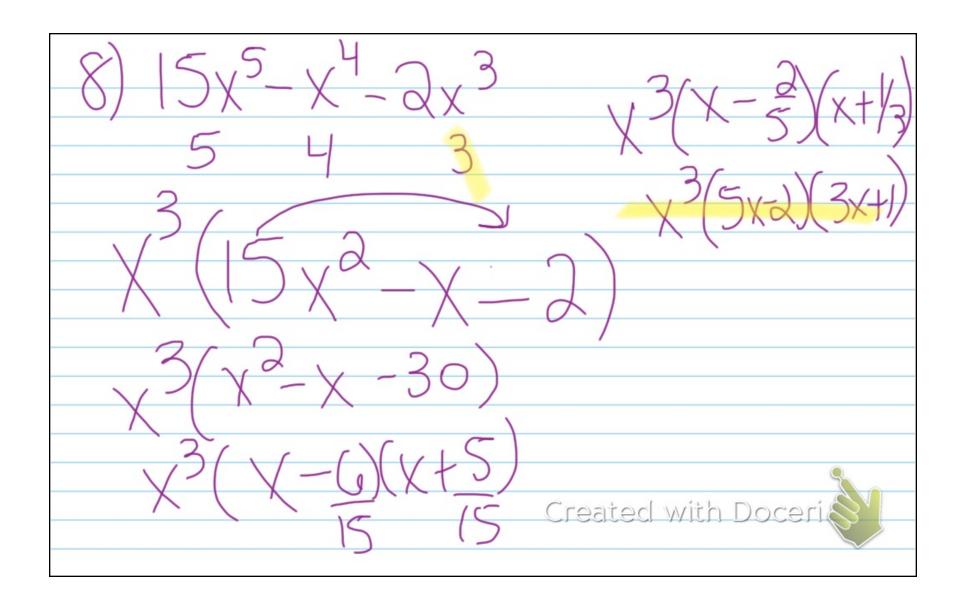
x =

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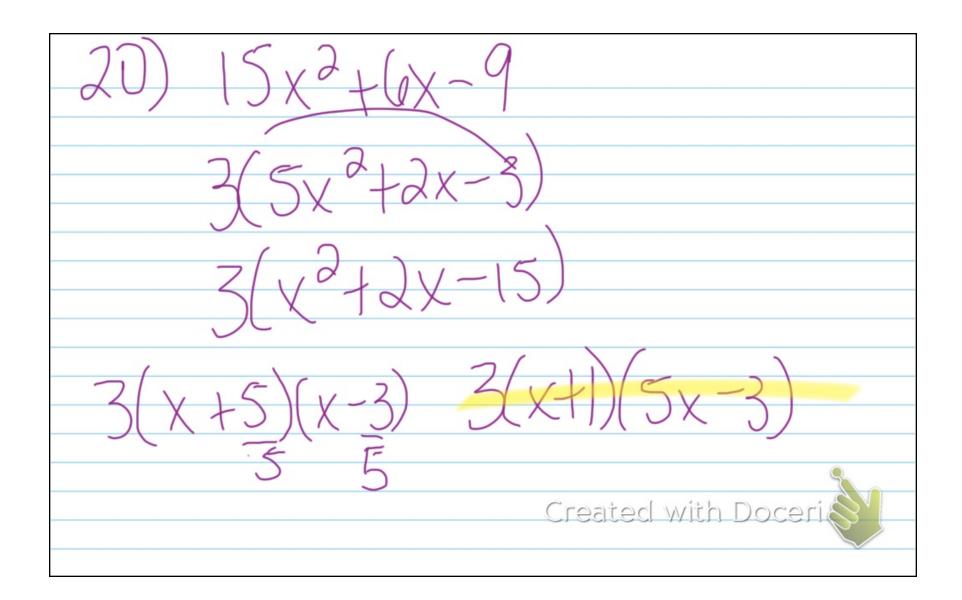


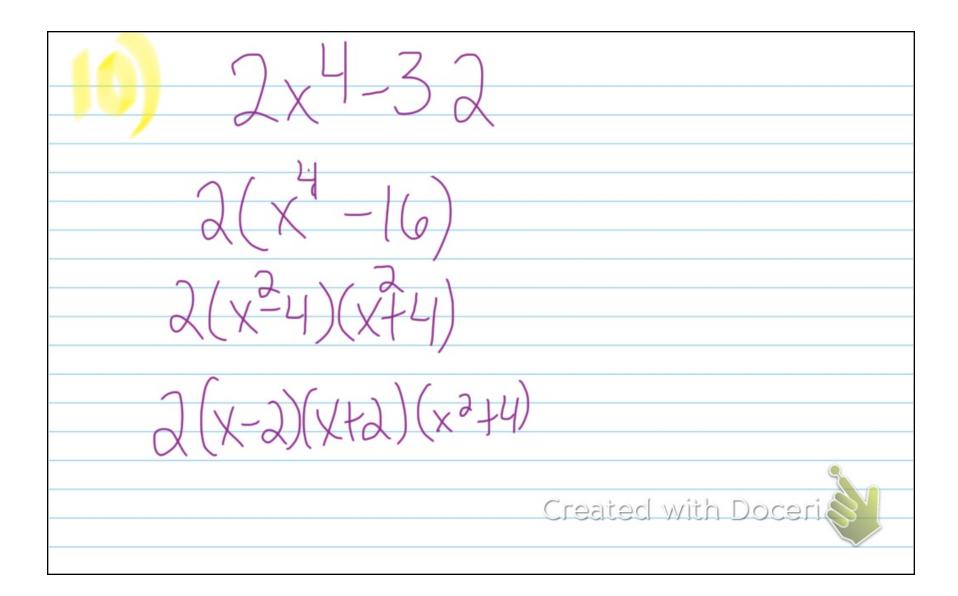
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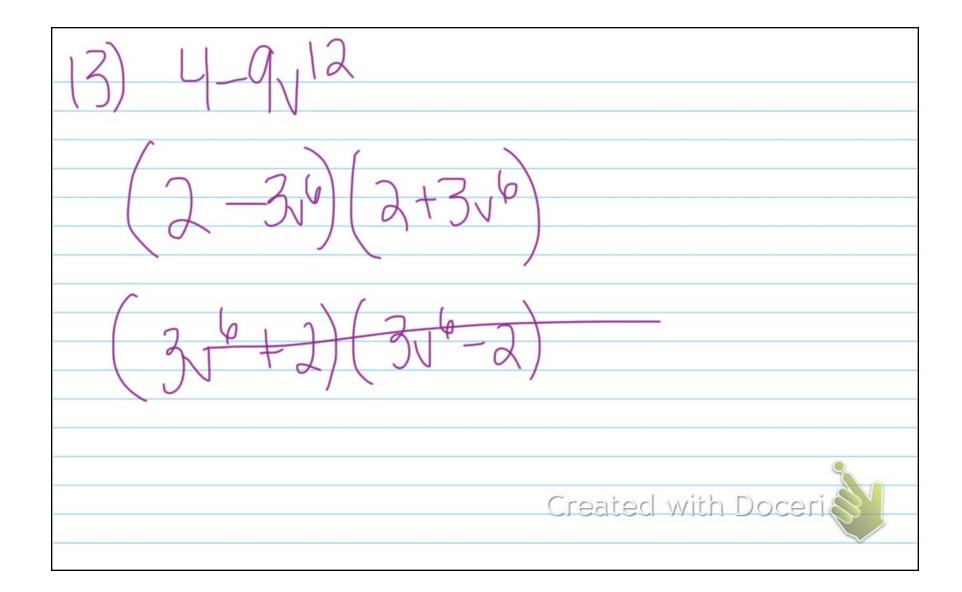


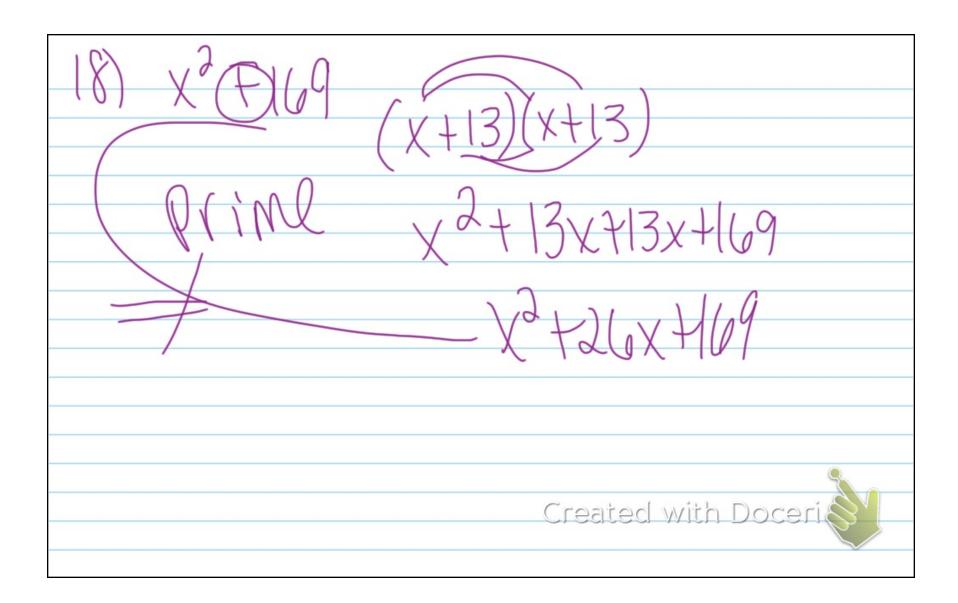


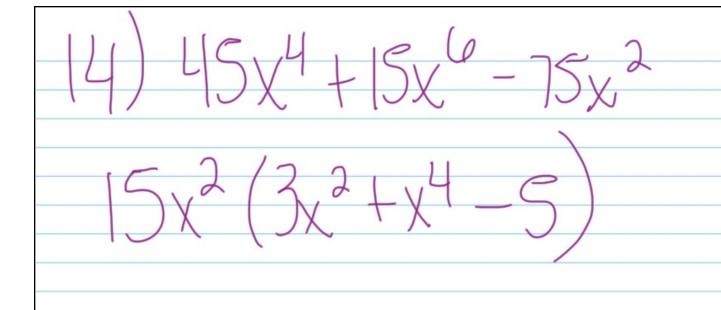
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3x2-12x+9

3(x-3)(x-1)