

10a)

$$\sqrt{9k^2 - 24k + 16}$$

Feb. 24

x

144

+ (-24)

$$= (3k - 4)(3k - 4)$$

$$= (3k - 4)^2$$

$$= 9k^2 - 12k - 12k + 16$$

$$= 9k^2 - 24k + 16$$

$$10C1 \quad 12x^2 - 5xy - 2y^2 \quad \begin{matrix} \times 24 \\ + -5 \end{matrix}$$

$$= (12x^2 - \frac{8xy}{4x}) + (\frac{3xy}{y} - 2y^2) - 8, 3$$

$$= \underbrace{(4x)}_{\text{circled}} \underbrace{(3x - 2y)}_{\text{underlined}} + \underbrace{y}_{\text{circled}} \underbrace{(3x - 2y)}_{\text{underlined}}$$

$$= (3x - 2y)(4x + y)$$

11 a)

$$21x^2 + 17x - 30$$

$$x - 630 + 17$$

$$= \frac{(21x^2 + 35x)}{7x} + \frac{(-18x - 30)}{7x - 6 - 6}$$

$$30, 21 \\ 35, 18$$

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

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

$$12 a) \frac{18x^2y}{3y} + \frac{51xy}{3y} - \frac{135y}{3y}$$

$$= 3y(6x^2 + 17x - 45)$$

$$= 3y\left[\frac{6x^2}{2x} - \frac{10x}{2x} + \left(\frac{27x}{9} - \frac{45}{9}\right)\right]$$

$$= 3y[2x(3x-5) + 9(3x-5)]$$

$$= 3y(3x-5)(2x+9)$$

$$\begin{matrix} \times (-270) \\ + 17 \\ \hline 2710 \end{matrix}$$

10e

11

c

e

g

12

c

e

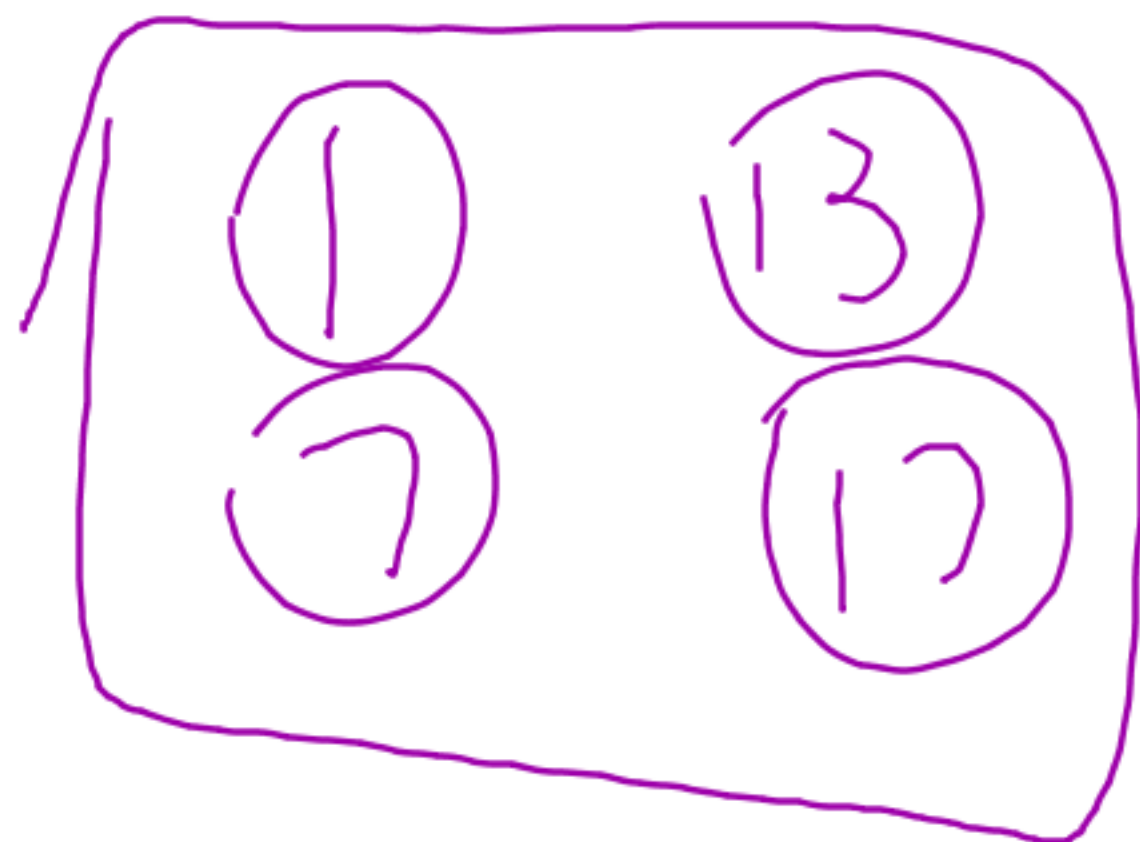
$$4x^2 - 20$$

$$-10$$

$$0$$

$$= (2x+10)(2x-10)$$

$$-10, 10$$



Homework

10. b, d 11 b, d 12 b, d

Factoring Hand-out

#1-23 (Bonus 24)

Chapter Review pg 298

Start with #11-62

but do every
other one.

ex: 11, 13, 15, 17, 19