

pp 234-5 # 18 - 42 EVEN

$$32. 4(n-2)(n-3)$$

$$18. (x+1)^2$$

$$34. 2(3b+5)(3b-1)$$

$$20. (2z-5)^2$$

$$36. 3(y+3)(y+5)$$

$$22. (x+2)(x-2)$$

$$38. 2(x-5)(2x-1)$$

$$26. 9(x+2)(x-2)$$

$$40. (2x-1)(x-5)$$

$$28. 3(2y+5)(2y-5)$$

$$42. D$$

$$30. 16(2t+1)(2t-1)$$

26 factor $9x^2 - 36$

$$\text{GCF} : 9$$

$$9(x^2 - 4)$$

$$a^2 - b^2$$

$$a = x \quad b = 2$$

$$(a+b)(a-b)$$

$$9(x+2)(x-2)$$

§4.4 #128 factor $12y^2 - 75$

$$\begin{aligned} a^2 - b^2 &= (a+b)(a-b) \\ a^2 + 2ab + b^2 &= (a+b)^2 \\ a^2 - 2ab + b^2 &= (a-b)^2 \end{aligned}$$

$$12 \div 2 = 6 \quad 75 \div 2 = 37.5$$

not 2

$$12 \div 3 = 4 \quad 75 \div 3 = 25$$

3

$$\begin{aligned} \text{GCF: } 3 \\ 3(4y^2 - 25) \\ 3((2y)^2 - (5)^2) \end{aligned}$$

$$3(2y+5)(2y-5)$$

#30 $64t^2 - 16$

possible error:

$$\text{GCF: } 8$$

$$8(8t^2 - 2)$$

$$\text{GCF: } 2$$

$$8 \cdot 2(4t^2 - 1)$$

$$16(4t^2 - 1)$$

$$16(2t+1)(2t-1)$$

error: no GCF

$$(8t+4)(8t-4)$$

$$4(2t+1) \cdot 4(2t-1)$$

$$16(2t+1)(2t-1)$$

correct:

$$\text{GCF: } 16$$

$$16(4t^2 - 1)$$

$$16(2t+1)(2t-1)$$

#42

$$4x^2 + 15x - 4$$

no GCF

$$m + n = 15$$

$$m \cdot n = -16$$

16, -1

$$4x^2 - x + 16x - 4$$

GCF: x

GCF: 4

$$x(4x-1) + 4(4x-1)$$

$$(x+4)(4x-1)$$

Table:

	-16	sum
1	-16	-15
2	-8	-6
4	-4	0
8	-2	6
16	-1	15

Review

Domain, Range of parabolas.

Both: domain =

 \mathbb{R}

(all real
#s)

