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#33.

$(x-1)(2x-1)$

Foil

$= 2x^2 - 1x + -2x + 1$

$= 2x^2 - 3x + 1$

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37. $(2x+3)(2x+1)$

$= 4x^2+2x+6x+3$

$= 4x^2+8x+3$

41. $(7y-3)(2y-7)$

$= 14y^2-49y-6y+21$

$= 14y^2-55y+21$

44. $(x-1.2)(x+3)$

$= x^2 + 3x - 1.2x - 3.6$

$= x^2 + 1.8x - 3.6$

46. $(x-3)(x+2.1)$

$x^2 + 2.1x - 3x - 6.3$

$x^2 - 0.9x - 6.3$

47. $2(x+3)(x+5)$

$= 2(x^2+5x+3x+15)$

$= 2(x^2+8x+15)$

$= 2x^2+16x+30$

49. $-1(a+3)(a-2)$

$-1(a^2-2a+3a-6)$

$= -1(a^2+1a-6) = -1a^2-1a+6$

51. $3(2x-1)(3x-2)$

$=3(6x^2-4x-3x+2)$

$=3(6x^2-7x+2)$

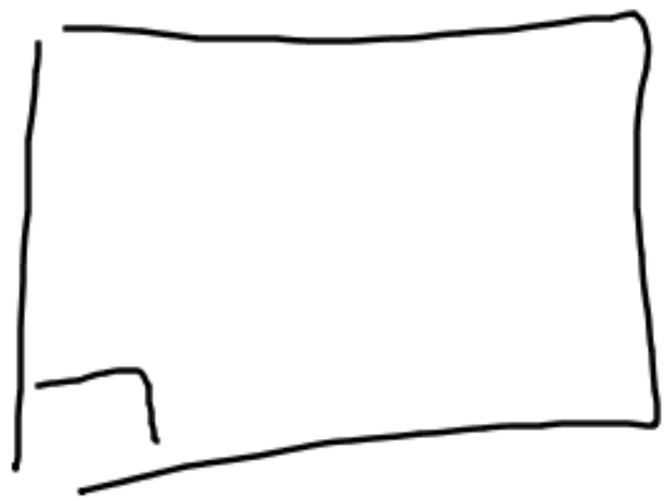
$=18x^2-21x+14$

55a

$x + 4 = 7$

$3 + 4$

$x = 3$



$A = L \times W$

$A = 7(7)$

$A = 21 cm^2$

$A = L \times W$

$A = x(x+4)$

$A = x^2 + 4x$

$A = 3^2 + 4(3)$

$A = 9 + 12$

$A = 21 cm^2$

$$A = 1000(1+0.08)^2$$

$$A = \$1166.40$$

P283 Factoring Trinomials

h) -7

5. Sum $m+n$

a) 7

b) 8

c) 13

d) 18

e) -8

f) -10

g) -7

Product mn

6

12

15

12

7

15

25

12

$-1, -6$

m, n

3 4

3 5

1 12

1 11

7 11

-3 -5

-5 -5

-3 -4

7. FACTOR

$x^2 + 7x + 10$

$= (x+2)(x+5)$

$= x^2 + 5x + 2x + 10$

$= x^2 + 7x + 10$

$\times (10)$

$+ (7)$

$2, 5$ ☺

8. $y^2 - 8y + 15$

$= (y-3)(y-5)$

$= y^2 - 5y - 3y + 15$

$= y^2 - 8y + 15$

$\times (15)$

$+ (-8)$

$-3 \quad -5$

$$w^2 - 3w - 56 \quad x \quad (-56)$$

$$= (w+7)(w-8) \quad + \quad (-1)$$

$$7 \cdot -8$$

$$-1$$

29. $\frac{3x^2}{3} - \frac{21x}{3} + \frac{36}{3}$

Hw/c
finish
box 2
box 3
thru
20

$= 3(x^2 - 7x + 12)$ $\times 12$, $+(-7)$

$= 3(x-3)(x-4)$

$= 3(x^2 - 4x - 3x + 12)$

$= 3(x^2 - 7x + 12$

$= 3x^2 - 21x + 36$

$-3 \quad -4$
$12 \mid 1$