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1-up

Factor the common factor out of each expression.

25) $-4m^2 + 6m + 20$

$$\underline{-2}$$

$$= -2(2m^2 - 3m - 10)$$

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1-up

Factor each completely.

29) $r^2 + 14r + 48$

$= (r+6)(r+8)$

$\times (48)$

$+ (14)$

$6, 8$

$r^2 + 8r + 6r + 48$

$r^2 + 14r + 48$



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1-up

Factor each completely.

30) $x^2 + 14x + 45$

$$\begin{aligned} & \quad \quad \quad \times 45 \\ & \quad \quad \quad + 14 \\ = & (x + 5)(x + 9) \\ = & x^2 + 9x + 5x + 45 \quad 5, 9 \\ = & x^2 + 14x + 45 \end{aligned}$$

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1-up

Factor each completely.

31) $n^2 - 16n + 60$

160
 $+(-16)$

$=(n-6)(n-10)$

$=n^2 - 10n - 6n + 60$

$=n^2 - 16n + 60$

Factor each completely.

32) $x^2 - 7x - 18$

$$x - 18$$

$$\begin{array}{r} 1, 18 \\ 2, -9 \end{array}$$

$$+ \quad -9$$

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

$$= x^2 - 9x + 2x - 18$$

$$= x^2 - 7x - 18$$

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1-up

Factor each completely.

33) $a^2 - a - 20$

$$x - 20$$

$$= (a - 5)(a + 4)$$

$$+ - 1$$

$$= a^2 + 4a - 5a - 20$$

$$-5 \quad 4$$

$$= a^2 - 1a - 20$$

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1-up

Factor each completely.

34) $b^2 + 5b - 24$

$$(b-3)(b+8)$$

$$b^2 + 8b - 3b - 24$$

$$b^2 + 5b - 24$$

$$x - 24$$

$$+ 5$$

$$- 3, 8$$

$$\begin{array}{l} 1, 24 \\ 2, 12 \\ 3, 8 \end{array}$$

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1-up

Factor each completely.

35) $\frac{b^2 + 4b}{b}$

$= b(b + 4)$

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1-up

Factor each completely.

$$36) \frac{v^2}{\sqrt{\quad}} + \frac{7v}{\sqrt{\quad}}$$

$$= v(v+7)$$

Solve each equation by factoring.

$$+12x \quad +12x$$

1) $x^2 + 32 = -12x$

$$x^2 + 12x + 32 = 0 \quad \times 32$$

$$(x+8)(x+4) = 0 \quad +12$$

$$\text{either } x+8=0 \text{ or } x+4=0 \quad -8, -4 \quad 8, 4$$

$$x = -8 \text{ or } x = -4$$

$$\text{Solution Set } \{-8, -4\}$$

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1-up

Solve each equation by factoring.

2) $n^2 + 7n = 8$

$$n^2 + 7n - 8 = 0 \quad \times (-8)$$

$$(n-1)(n+8) = 0 \quad + (7)$$

either $n-1=0$ or $n+8=0$

$$n=1 \quad \text{or} \quad n=-8$$

$$\text{S.S.} = \{-8, 1\}$$

Solve each equation by factoring.

— look for common factor first.

3) $4a^2 - 20a = -16$

$$\frac{4a^2}{4} - \frac{20a}{4} + \frac{16}{4} = 0$$

$$4(a^2 - 5a + 4) = 0$$

$$4(a - 4)(a - 1) = 0$$

$$\begin{array}{l} \times (4) \\ + (-5) \end{array}$$

either $a - 4 = 0$ or $a - 1 = 0$ — 4 | -1

$$a = 4$$

$$a = 1$$

SS { 4, 1 }

Solve each equation by factoring.

4) $k^2 = -6k + 16$

$$k^2 + 6k - 16 = 0$$

X (-16)

$$(k+8)(k-2) = 0$$

+ (6)

either $k+8=0$ or $k-2=0$

8-2

$k = -8$ or $k = 2$

S.S.

$\{ -8, 2 \}$

Finish thru 8.