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Factor the common factor out of each expression.

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

$$\underline{\quad -2 \quad}$$

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

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Factor each completely.

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

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

$$\times (48)$$

$$+ (14)$$

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

$$r^2 + 14r + 48$$



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Factor each completely.

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

$$= (x + 5)(x + 9)$$

$$= x^2 + 9x + 5x + 45$$

$$= x^2 + 14x + 45$$

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Factor each completely.

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

$$160$$
$$+(-16)$$

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

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

$$= n^2 - 16n + 60$$

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Factor each completely.

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

$x - 18$

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

$+ \quad -$

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

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

$= x^2 - 7x - 18$

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Factor each completely.

$$33) \underline{a^2 - a - 20}$$

$$\times - 20$$

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

$$+ - 1$$

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

$$- 5 \quad 4$$

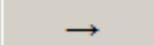
$$= a^2 - 1a - 20$$

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Factor each completely.

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

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

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

$b^2 + 5b - 24$

~~$x - 24$~~

$+ 5$

$-3, 8$

- 1, 24
- 2, 12
- 3, 8

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Factor each completely.

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

$$= b(b+4)$$

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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.

$+12x$ $+12x$

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

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

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

either $x+8=0$ or $x+4=0$ $8, 4$

$x = -8$ or $x = -4$

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

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 $n+8=0$

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

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

Solve each equation by factoring.

— look for common factor first.

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

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

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

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

X (4)
 + (-5)

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.

$\left\{ \begin{array}{l} 8 \\ 2 \end{array} \right\}$

Finish thru 8.