Factor

$x^2 - 12x + 32$

32
1·32
2·16
-4·8

$(x-4)(x-8)$

Find the GCF. Then factor completely.

$5x^2 + 25x - 70$

1·14
-2·7

$5(x^2 + 5x - 14)$

$5(x-2)(x+7)$

Factor.

$5x^2 - 17x + 6$

$a \cdot c = 5 \cdot 6$

30
1·30
2·15
3·10
5·6

$5x^2 - 15x - 2x + 6$

$5x(x-3) - 2(x-3)$

$(x-3)(5x-2)$

$3x^2 + 10x + 8$

24
1·24
~~2·12~~ → -24
3·8
4·6 → 10

$3x^2 + 4x + 6x + 8$

$x(3x+4) + 2(3x+4)$

$(3x+4)(x+2)$

$2b^2-9b-5$ $\quad -10$, $1\cdot 10$

$2b^2-10b+1b-5$

$2b(b-5)+1(b-5)$

$(b-5)(2b+1)$

$2x^2+9x+10$ $\quad 2\cdot 10 = 20$, 45

$2x^2+4x+5x+10$

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

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

$12t^2+10t-12 = 2(6t^2+5t-6)$ $\quad 36$, $1\cdot 36$, $2\cdot 18$, $3\cdot 12$, $4\cdot 9$, $6\cdot 6$

$2\left[\frac{6t^2}{2t}-\frac{4t}{2t}+\frac{9t}{3}-\frac{6}{3}\right]$

$2[2t(3t-2)+3(3t-2)]$

$2(3t-2)(2t+3)$

$z^2+12z+36$

$(z+6)^2$ $\quad 6z$

$9x^2-6x+1$

$(3x-1)^2$ $\quad -3x$

$4k^2+12k+9$

$(2k+3)^2$ $\quad 6k$

$16x^2-40x+25$

$(4x-5)^2$ $\quad -20x$

m^2-49

$(m+7)(m-7)$

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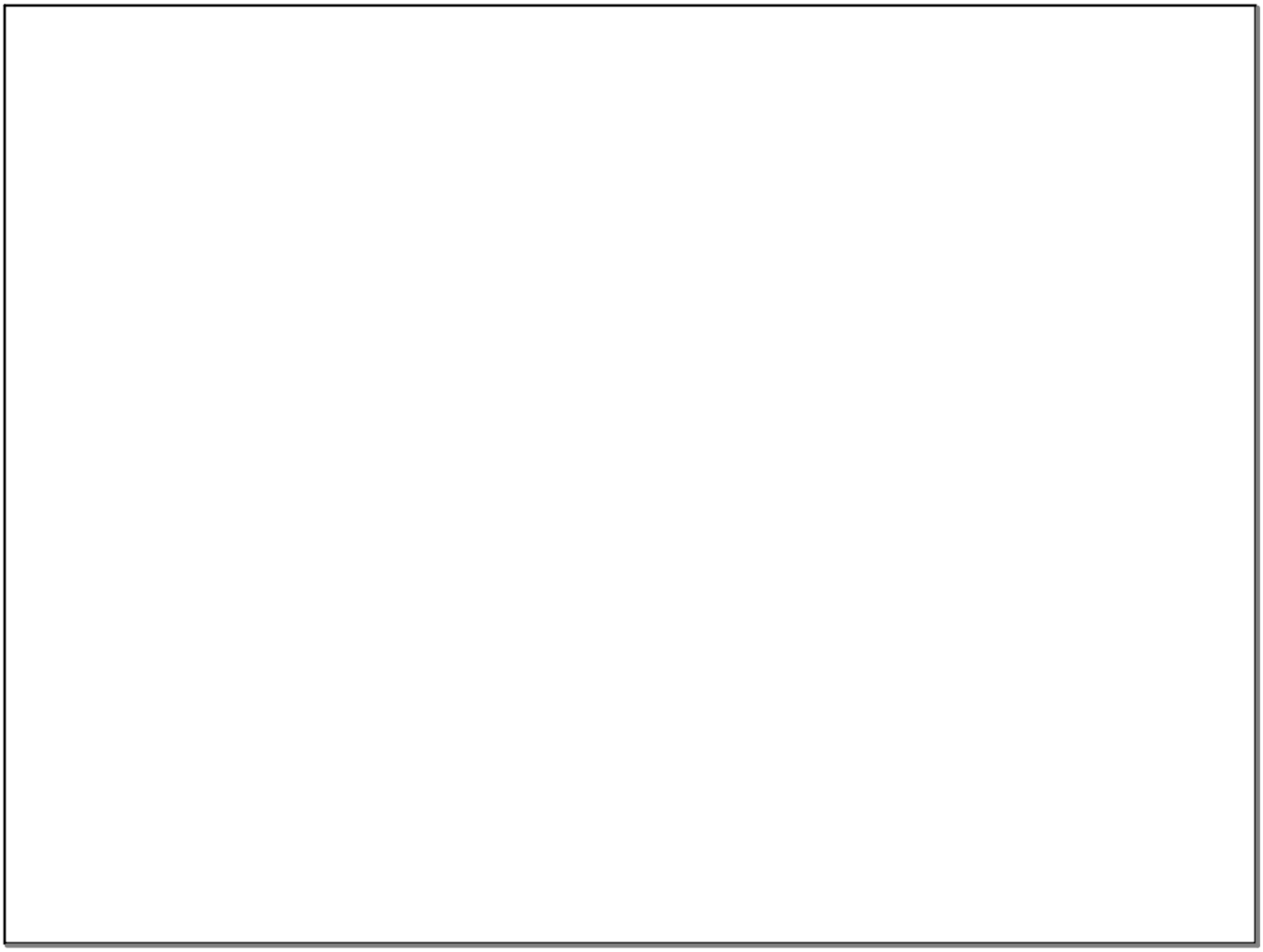

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