

Name : _____

Factoring Quadratic Expressions

MS3

Factorize each quadratic expression.

1) $-p^2 - pq + \frac{1}{2}p$

2) $3h^2 + 33h + 84$

3) $29n^2 - 100n - 100$

5) $-ab - \frac{1}{7}a$

7) $m^2 + 49 - 1$

9) $36vw + 42uv$

10) $c^2 + \frac{1}{4}d^2 + cd$

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Factoring Quadratic Expressions

Factorize each quadratic expression.

1) $-p^2 - pq + \frac{1}{2}p$

$-p\left(p + q - \frac{1}{2}\right)$

2) $3h^2 + 33h + 84$

$3(h + 7)(h + 4)$

3) $29n^2 - 100n + 25$

$-(n - 25)(n - 1)$

5) $-ab - \frac{1}{7}a$

$-a\left(b + \frac{1}{7}\right)$

7) $m^2 + 49 - 14m$

$(m - 7)^2$

9) $36vw + 42uv$

$6v(6w + 7u)$

10) $c^2 + \frac{1}{4}d^2 + cd$

$\left(c + \frac{1}{2}d\right)^2$

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