

Name : _____

Algebraic Identity

MS2

Expand each expression using algebraic identity.

1) $\left(\frac{v}{6} - \frac{1}{5}\right)\left(\frac{v}{6} + \frac{3}{5}\right)$

2) $\left(\frac{st}{2} + 7\right)\left(\frac{st}{2} - 4\right)$

3) $(1.5a + bc)($

)

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5) $\left(\frac{8}{n} + n\right)\left(\frac{8}{n} -$

)

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7) $\left(3r - \frac{1}{3}\right)\left(3r$

)

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9) $\left(\frac{t}{4} - 6.4u\right)\left(\frac{t}{4} - 3.2u\right)$

10) $(c^3 - 3.4d)(c^3 + 3d)$

Algebraic Identity

Expand each expression using algebraic identity.

1) $\left(\frac{v}{6} - \frac{1}{5}\right)\left(\frac{v}{6} + \frac{3}{5}\right)$

$$\frac{v^2}{36} + \frac{v}{15} - \frac{3}{25}$$

2) $\left(\frac{st}{2} + 7\right)\left(\frac{st}{2} - 4\right)$

$$\frac{s^2t^2}{4} + \frac{3st}{2} - 28$$

3) $(1.5a + bc)(1.5a - bc)$

$$2b^2c^2 + 4.5a^2$$

5) $\left(\frac{8}{n} + n\right)\left(\frac{8}{n} - n\right)$

$$-7n^2 + \frac{64}{n^2}$$

7) $\left(3r - \frac{1}{3}\right)\left(3r + \frac{1}{3}\right)$

$$9r^2 + \frac{r}{2} - \frac{1}{6}$$

9) $\left(\frac{t}{4} - 6.4u\right)\left(\frac{t}{4} + 3.2u\right)$

$$\frac{t^2}{16} - 2.4tu + 20.48u^2$$

10) $(c^3 - 3.4d)(c^3 + 3d)$

$$c^6 - 0.4c^3d - 10.2d^2$$

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