Activités Mentales

24 Août 2023

$$A(x) = x^2 - 9x.$$

$$A(x) = x^2 + 11x.$$

$$A(x) = x^2 + 9x.$$

$$A(x) = x^2 - 5x.$$

$$A(x) = x^2 + 7x.$$

$$A(x) = x^{2} - 9x$$

$$= x^{2} - 2 \times x \times \frac{9}{2} + \left(\frac{9}{2}\right)^{2} - \left(\frac{9}{2}\right)^{2}$$

$$= \left(x - \frac{9}{2}\right)^{2} - \frac{81}{4}$$

$$A(x) = x^{2} + 11x$$

$$= x^{2} + 2 \times x \times \frac{11}{2} + \left(\frac{11}{2}\right)^{2} - \left(\frac{11}{2}\right)^{2}$$

$$= \left(x + \frac{11}{2}\right)^{2} - \frac{121}{4}$$

$$A(x) = x^{2} + 9x$$

$$= x^{2} + 2 \times x \times \frac{9}{2} + \left(\frac{9}{2}\right)^{2} - \left(\frac{9}{2}\right)^{2}$$

$$= \left(x + \frac{9}{2}\right)^{2} - \frac{81}{4}$$

$$A(x) = x^{2} - 5x$$

$$= x^{2} - 2 \times x \times \frac{5}{2} + \left(\frac{5}{2}\right)^{2} - \left(\frac{5}{2}\right)^{2}$$

$$= \left(x - \frac{5}{2}\right)^{2} - \frac{25}{4}$$

$$A(x) = x^{2} + 7x$$

$$= x^{2} + 2 \times x \times \frac{7}{2} + \left(\frac{7}{2}\right)^{2} - \left(\frac{7}{2}\right)^{2}$$

$$= \left(x + \frac{7}{2}\right)^{2} - \frac{49}{4}$$