

5 Réduisez chaque expression algébrique ci-dessous.

a)  $3a(2a - 5b) - 4b(6a - b)$

$6a^2 - 15ab - 24ab + 4b^2$   
 $6a^2 - 39ab + 4b^2$

$6a^2 + 39ab + 4b^2$

c)  $\frac{-4a(3a^2b^6 - 5a^4b^7)}{2a^3b^4}$

$-4a \cdot 3a^2b^6 - 4a \cdot -5a^4b^7 / 2a^3b^4$   
 $\frac{-12a^3b^6 + 20a^5b^7}{2a^3b^4} = -6b^2 + 10a^2b^3$

$-6b^2 + 10a^2b^3$

b)  $5m^2(-4mn^2 + 3n) + 2n(m^3n - 7m^2)$

$-20m^3n + 15m^2n + 2m^3n^2 - 14m^2n$   
 $-18m^3n + 2m^3n^2$

d)  $\frac{-x^4y(-7x^2y^3 + 9x^5y^2)}{4x^8y^2}$

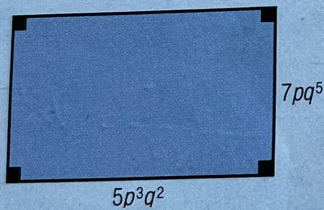
$\frac{7y^2}{4x^2} - \frac{9xy}{4}$

7 On découpe de 28,8

8

6 Sachant que toutes les mesures sont en mètres, déterminez l'expression algébrique correspondant à l'aire de chaque figure ci-dessous.

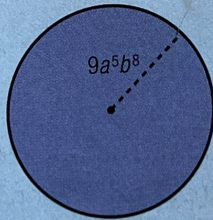
a)



$A = b \times l$   
 $5p^3q^2 \times 7pq^5$

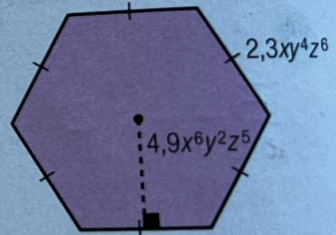
$35p^4q^7 \text{ m}^2$

b)

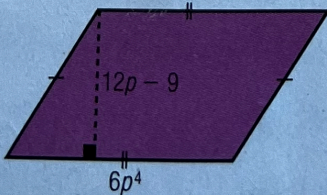


$A = \pi \times R^2$   
 $\pi \cdot (9a^5b^8)^2$

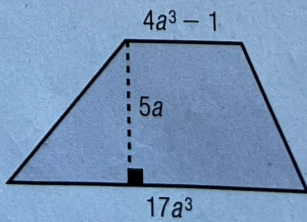
c)



d)



e)



f)

