

Outcome 9.4

Put a question mark (?) beside questions you have no clue about or have never seen before.

1. Define polynomial:

2. Label each expression as a monomial, binomial or a trinomial? (indicator f) (1mk each)

a. $5x^2 - 2x$

b. $4x^3$

c. $4 - 6x^3 + 5x$

d. $3x^2 - 8x$

3. Label which are expressions and which are equations. (1mk each)

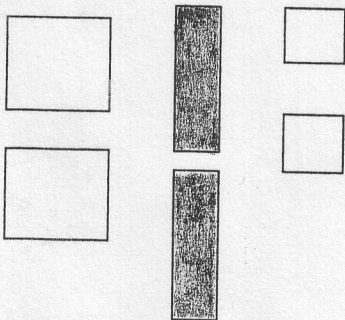
a. $2x^2 + 3x - 6$

b. $2x + 2 = 10$

c. $4xy - 6$

d. $2p^3 - 7 = 44$

4. A large white square represents an x^2 tile, a black rectangle represents a $-x$ tile, and a small white represents a 1 tile. (Indicator b/c). (2mks)



a. What polynomial does this collection represent?

5. Identify the degree of each polynomial? (Indicator d). (1mk each).

a. $7t + 4$

b. 4

c. $4p^2 - 7 + 6$

d. $13v$

6. Add or subtract the following as needed. (Indicator J). (1mk each)

a. $3x + 1 + 4x - 2$

b. $-y^2 + 7y - 5 + (2y^2 + 7y - 4)$

c. $3x - 5 - (x + 2)$

d. $x + 5 - (3x - 1)$

5. Multiply or divide the following. (Indicator M). (1mk each)

a. $5x \cdot 3y =$

b. $6x(x + 1) =$

c. $\frac{6x}{3} =$

e. $25xy \div 5xy =$

f. $45x^2 \div 5x =$