

Expanding and Simplifying Brackets

1) Expand these brackets

- a) $2(x + 3)$
- b) $3(2x + 4)$
- c) $5(3p - 2q)$
- d) $4(x^2 + 2y^2)$
- e) $6(r - r^2)$

2) Expand these brackets

- a) $x(x - 2)$
- b) $x(3x + 5)$
- c) $p(3p - 7q)$
- d) $y(y + 6y^2)$
- e) $x(r + r^2)$

3) Expand these brackets

- a) $2x(x - 5)$
- b) $4x(2x + 3)$
- c) $5p(4p - 2q)$
- d) $2y(3y + 4x^2)$
- e) $x(x + r^2)$

4) Expand these brackets

- a) $x(x^2 - 2)$
- b) $3x(2x^3 + 1)$
- c) $5p^2(4p - 2)$
- d) $2y^2(3y^3 + 4y)$
- e) $2xy(x + y^2)$

5) Expand and simplify

- a) $2(x + y) + 3(x + y)$
- b) $3(2x + y) + 2(5x + 3y)$
- c) $5(x + y) + 3(2x + y)$
- d) $3(2c + d) + 2(c + d)$
- e) $4(2p + q) + 3(2p + q)$

6) Expand and simplify

- a) $2(x + y) + 3(x - y)$
- b) $5(2x + y) + 2(3x - 2y)$
- c) $4(x - y) + 3(2x + y)$
- d) $6(2c - d) + 2(c - d)$
- e) $2(5p - q) + 3(p - 2q)$

7) Expand and simplify

- a) $3(x + 2y) - 3(x - y)$
- b) $5(2x - y) - 2(3x - 2y)$
- c) $7(x - 2y) - 3(2x + y)$
- d) $6(2x - y) - 2(x + 2y)$
- e) $2(5p - q) - (p - 3q)$