MIXED FACTORISATIONS

Factorise completely:

1 $x^2 - 3x$

2 $2a^3 - 8a$

3 $x^2 - 9$

4 $x^2 - 8x - 9$

5 $3x^2y - 12y^3$

6 $5x^3y - 20xy^3$

7 $1 - (b + c)^2$

8 $10x^2 + 9x - 1$

MIXED FACTORISATIONS

13 $2x^3 + 14x^2 - 16x$ **14** $3a^3 + 24a^2 + 21a$ **15** $(x+2y)^2 - 4$ **16** $ab^2 + abc + abd$

21 $6y^3 + 3y^2 - 3y$ **22** $6y^3 + 26y^2 + 8y$ **23** $15a^2 - 60$ **24** $9mn - 25m^3n^3$

MIXED FACTORISATIONS

25 $5a^2x - 125x$ **26** $(x+y)^2 - (x-y)^2$ **27** $5t^3 + 5t^2 - 360t$ **28** $m^2 - mn + 6m - 6n$

MIXED FACTORISATIONS

For questions **32** to **39**, write an algebraic expression in factorised form for the shaded area in each of the figures.

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