SATPREP

Assignment-Factorisation

Factor each completely.

1) $4b^2 - 25$

2) $x^2 + 8x + 16$

3) $25b^2 - 20b + 4$

4) $25n^2 - 40n + 16$

5) $9a^2 - 24ab + 16b^2$

6) $18u^2 - 24uv + 8v^2$

7) $2x^3 - 7x^2 + 12x - 42$

8) $8x^3 - 2x^2 + 20x - 5$

Factor the common factor out of each expression.

9) $-2p^3 + 4p + 1$

10) $2m^2 - 9m - 1$

Factor each completely.

11) $x^2 + 10xy + 25y^2$

12) $u^2 + 4uv + 4v^2$

Answers to Assignment-Factorisation

1) $(2b + 5)(2b - 5)$

2) $(x + 4)^2$

3) $(5b - 2)^2$

4) $(5n - 4)^2$

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

6) $2(3u - 2v)^2$

7) $(x^2 + 6)(2x - 7)$

8) $(2x^2 + 5)(4x - 1)$

9) $-2p^3 + 4p + 1$

10) $2m^2 - 9m - 1$

11) $(x + 5y)^2$

12) $(u + 2v)^2$