SATPREP

Assignment : Factorization

Factor each completely.

1) $5n^3 - 20n^2 + 2n - 8$

2) $40x^3 - 32x^2 - 5x + 4$

Factor the common factor out of each expression.

3) $18x^3 - 60x$

4) $70k^2 - 50k$

5) $8k^5 - 16k^4$

6) $-7x^4y^2z + 7x^4y^3z^3$

Factor each completely.

7) $x^2 + 4x + 4$

8) $16x^2 - 25$

Factor the common factor out of each expression.

9) $30a^6b^2 - 20c^3 - 50$

10) $144k + 84k^3hj + 132k^8j$

Answers to Assignment : Factorization

1) $(5n^2 + 2)(n - 4)$

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

3) $6x(3x^2 - 10)$

4) $10k(7k - 5)$

5) $8k^4(k - 2)$

6) $7x^4y^2z(-1 + yz^2)$

7) $(x + 2)^2$

8) $(4x + 5)(4x - 5)$

9) $10(3a^6b^2 - 2c^3 - 5)$

10) $12k(12 + 7hjk^2 + 11jk^7)$