

Unit 6 Homework #7 Sect. 6.4 - 6.5

Factor the common factor out of each expression.

1) $21x^3 + 9x^2 + 27$

2) $-99x^7 + 121x^5 + 154x^4 + 33x^3$

3) $60 - 40x + 30x^2 + 100x^3$

Factor each completely using the "X-Box" method.

4) $r^2 + 21r + 104$

5) $4x^2 + 28x - 392$

6) $n^2 + n - 6$

7) $7n^2 - 55n + 42$

8) $28n^2 + 108n - 16$

9) $6x^2 - 9x - 42$

10) $9p^2 + 3p$

11) $25r^2 - 64$

12) $100m^2 - 49$

13) $6p^2 + 31p + 18$