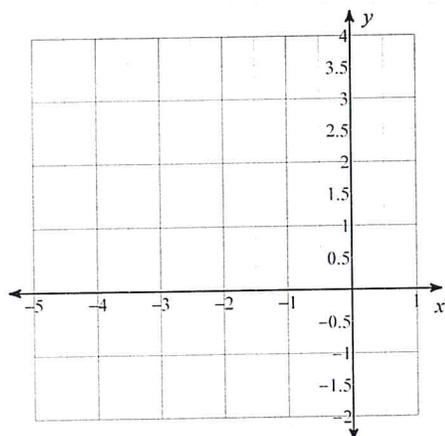


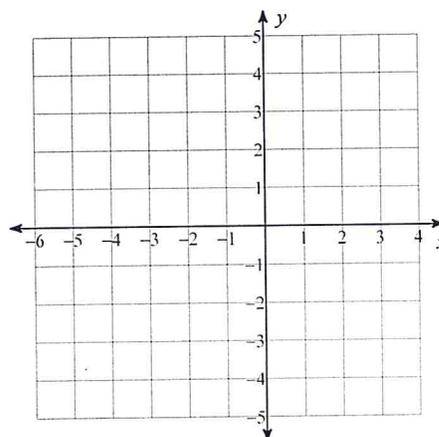
More Graphing & Factoring

Sketch the graph of each function.

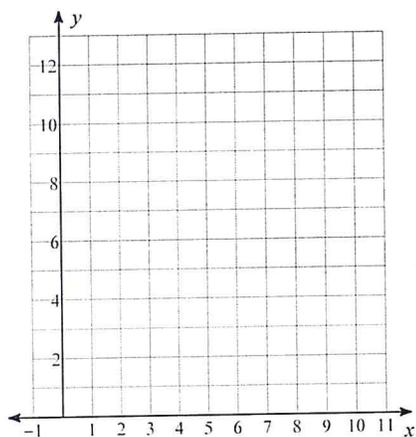
1) $y = x^2 + 2x$



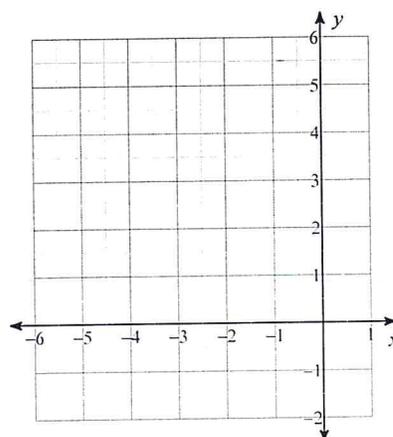
2) $y = 2x^2 - 8x + 4$



3) $y = 2(x - 3)^2 + 4$



4) $y = -(x + 4)^2 + 4$



Factor each completely.

5) $m^2 - 25$

7) $3x^2 - 75$

9) $2n^3 - 25n^2 + 72n$

11) $18v^2 - 120v - 42$

13) $9k^2 + 30k + 25$

15) $36v^2 - 16$

17) $30v^2 - 9v - 12$

19) $10n^2 + 23n - 42$

21) $4n^3 - 28n^2$

23) $27x^3 + 36x^2 - 96x$

6) $x^2 - 64$

8) $2m^2 - 32$

10) $7v^4 + 51v^3 + 14v^2$

12) $14x^2 - 80x - 24$

14) $6n^3 + 25n^2 + 14n$

16) $18v^2 - 200$

18) $6x^3 - 7x^2 - 24x$

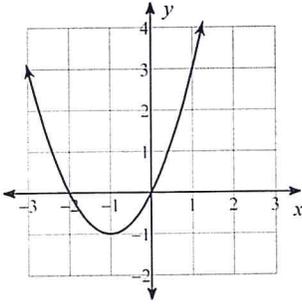
20) $9n^2 - 6n + 1$

22) $27b^2 + 213b - 270$

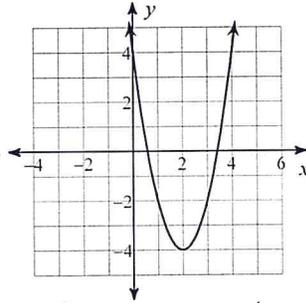
24) $27r^3 + 240r^2 - 300r$

Answers to More Graphing & Factoring

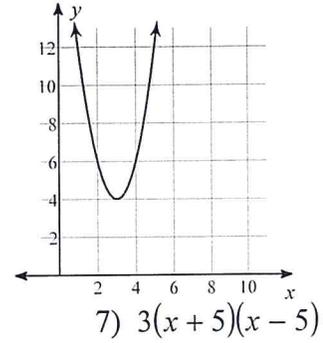
1)



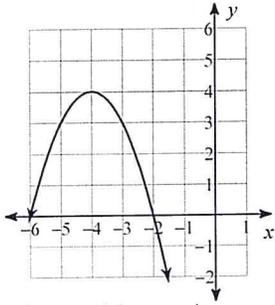
2)



3)



4)



5) $(m - 5)(m + 5)$

6) $(x - 8)(x + 8)$

7) $3(x + 5)(x - 5)$

8) $2(m - 4)(m + 4)$

9) $n(2n - 9)(n - 8)$

10) $v^2(7v + 2)(v + 7)$

11) $6(3v + 1)(v - 7)$

12) $2(7x + 2)(x - 6)$

13) $(3k + 5)^2$

14) $n(2n + 7)(3n + 2)$

15) $4(3v + 2)(3v - 2)$

16) $2(3v + 10)(3v - 10)$

17) $3(5v - 4)(2v + 1)$

18) $x(2x + 3)(3x - 8)$

19) $(2n + 7)(5n - 6)$

20) $(3n - 1)^2$

21) $4n^2(n - 7)$

22) $3(b + 9)(9b - 10)$

23) $3x(3x - 4)(3x + 8)$

24) $3r(r + 10)(9r - 10)$