F O I L

Introduction to Algebra

1. $(x+2)(x+7)$.
2. $(x+1)(x+6)$.
3. $(x-3)(x-4)$.
4. $(x-5)(x-2)$.
5. $(x+5)(x-2)$.
6. $(x+7)(x-3)$.
7. $(x-7)(x+6)$.
8. $(x-6)(x+5)$.
9. $(x-11)(x-2)$.
10. $(x-13)(x-1)$.
11. $(y+7)(y-9)$.
12. $(x+3)(x+17)$.
13. $(y+2)(y-15)$.
14. $(y+2)(y+16)$.
15. $(a^2+7)(a^2-5)$.
16. $(a-9)(a+9)$.
17. $(m^2-2)(m^2-16)$.
18. $(b^3+12)(b^3-10)$.
19. $(x-\frac{1}{2})(x-\frac{1}{4})$.
20. $(y+\frac{1}{3})(y+\frac{1}{6})$.
21. $(m+\frac{2}{3})(m-\frac{1}{3})$.
22. $(a-\frac{2}{5})(a+\frac{3}{5})$.
23. $(x-\frac{2}{3})(x-\frac{1}{2})$.
24. $(y+\frac{3}{4})(y+\frac{1}{5})$.
25. $(3-x)(7-x)$.
26. $(5-x)(3-x)$.
27. $(6-x)(7+x)$.
28. $(11-x)(3+x)$.
29. $(x-3)(x+3)$.
30. $(y+5)(y-5)$.
31. Find a number which, being multiplied by 6, and having 15 added to the product, will equal 141.
32. Mr. Allen has 3 more cows than his neighbor. Three times his number of cows will equal four times his neighbor's. How many has Mr. Allen?

kathryn@picrust.com

FOIL solutions

1. $x^2 + 9x + 14$.
2. $x^2 + 7x + 6$.
3. $x^2 - 7x + 12$.
4. $x^2 - 7x + 10$.
5. $x^2 + 3x - 10$.
6. $x^2 + 4x - 21$.
7. $x^2 - x - 42$.
8. $x^2 - x - 30$.
9. $x^2 - 13x + 22$.
10. $x^2 - 14x + 13$.
11. $y^2 - 2y - 63$.
12. $x^2 + 20x + 51$.
13. $y^2 - 13y - 30$.
14. $y^2 + 18y + 32$.
15. $a^4 + 2a^2 - 35$.
16. $a^2 - 81$.
17. $m^4 - 18m^2 + 32$.
18. $b^6 + 2b^3 - 120$.
19. $x^2 - \frac{3}{4}x + \frac{1}{8}$.
20. $y^2 + \frac{1}{2}y + \frac{1}{18}$.
21. $m^2 + \frac{1}{3}m - \frac{2}{9}$.
22. $a^2 + \frac{1}{5}a - \frac{6}{25}$.
23. $x^2 - \frac{7}{6}x + \frac{1}{3}$.
24. $y^2 + \frac{19}{20}y + \frac{3}{20}$.
25. $21 - 10x + x^2$.
26. $15 - 8x + x^2$.
27. $42 - x - x^2$.
28. $33 + 8x - x^2$.
29. $x^2 - 9$.
30. $y^2 - 25$.
31. 21.
32. 12 cows.

Problems from the book:
A First Book in Algebra
Wallace C. Boyd, A.M.
1895

Republished by:
www.picrust.com