

Sheet #242: Algebra & Graphs

Answer List

1.  $-27r^{12}$
2.  $\frac{64c^6}{d^6}$
3.  $\frac{t^5}{6}$
4.  $-11x - 7y$
5.  $14y^3 - 7y^2 - 70y$
6.  $3d^2 + 20d + 12$
7.  $x^2 + y^2 - 2xy + xz - yz$
8.  $3y^2$
9.  $(k - 9)(k - 3)$
10.  $(5y + 1)(y - 1)$
11.  $(x - 6)(x + 6)$
12.  $\pm 1$
13.  $\pm 6$
14.  $-2, \frac{9}{2}$
15.  $\frac{2}{a}$
16.  $\frac{w^2 + 25}{5w}$
17.  $-3\sqrt{5}$
18.  $\sqrt{11}$
19.  $-1 - \sqrt{3}$
20.  $\pm 3$
21.  $-3, \frac{7}{3}$
22.  $9 - 6i$
23.  $-6 - 44i$
24.  $\frac{2(5+i)}{13}$
25.  $\frac{1 \pm \sqrt{11}i}{2}$
26.  $(4, -3), r = \sqrt{6}$
27.  $(x - 5)^2 + (y + 4)^2 = 20$
28.  $y = -4x + 3$
29.  $y = -x + 6$
30. ~~1.25, 8.25, 1.65~~ Question 30: 2s, 20m, 4s.
31.  $74m \times 57m$
32.  $(-3, -5)$ , shift left 3 units, shift down 5 units.  
 $4, (-5.236, -0.764), -3 \pm \sqrt{5}$ .