

- 1) Solve:  $(2x)^2 = 64$
- 2) Factor:  $x^2 - 2x - 8$
- 3) Convert  $30^\circ$  to radians.
- 4) Multiply:  $(x - 6)^2$
- 5) Write an equation of a line that goes through the point  $(-1, -\frac{1}{2})$  and has a slope of  $-\frac{1}{4}$ .
- 6) Solve:  $(x - 5)^2 = 49$
- 7) Factor:  $x^2 + 5x + 6$
- 8) Convert  $45^\circ$  to radians.
- 9) Multiply:  $(x - 4)^2$
- 10) Write an equation of a line that goes through the point  $(-2, 7)$  and has a slope of  $\frac{1}{4}$ .
- 11) Solve:  $\frac{4x + 5}{2x} = 3$
- 12) Factor:  $6x^2 - 27x$
- 13) Solve:  $x^2 - 5x = 0$
- 14) Add:  $\frac{1}{4} + \frac{5}{6}$
- 15) Write an equation of a line that goes through the point  $(4, -8)$  and has a slope of  $-3$ .
- 16) Solve:  $\frac{7x - 8}{x} = 3$
- 17) Factor:  $8x^2 - 36$
- 18) Solve:  $3x^2 + 7 = 34$
- 19) Multiply:  $(x - 4)(x - 7)$
- 20) Write an equation of a line that goes through the point  $(-7, 1)$  and has a slope of  $\frac{1}{2}$ .
- 21) Solve:  $\frac{2x - 8}{x + 4} = 0$
- 22) Factor:  $4x^2 - 4x$
- 23) Solve:  $3(x - 2)^2 = 75$
- 24) Multiply:  $(x - 5)(x + 2)$
- 25) Write an equation of a line that goes through the point  $(2, -1)$  and has a slope of  $-\frac{1}{2}$ .
- 26) Write an equation of the line with slope  $= 2$  and goes through the point  $(1, 5)$ .
- 27) Solve:  $2x^2 - 18 = 0$
- 28) Solve:  $x^3 + 2 = 10$
- 29) Factor:  $2x^2 - 24x$
- 30) Solve:  $\frac{3x - 7}{x} = 2$