

Section 5.4 – Finding the Equation of a Line – The Point-Slope Form

Problem Set 2

Find the equation of the line through the following points.

1. $(-5, -2)$ and $(2, 5)$
2. $(6, 2)$ and $(-2, 3)$
3. $(5, 8)$ and $(6, 3)$
4. $(6, 1)$ and $(-3, 0)$
5. $\left(\frac{1}{5}, \frac{4}{5}\right)$ and $\left(\frac{3}{10}, -\frac{1}{5}\right)$
6. $\left(\frac{6}{5}, -\frac{1}{2}\right)$ and $\left(\frac{4}{5}, 3\right)$
7. $(5, 1)$ and $(-3, -7)$
8. $(-5, 1)$ and $(7, -7)$
9. $\left(\frac{1}{3}, 1\right)$ and $(0, 3)$
10. $(4.1, -1.1)$ and $(-1, 5.3)$
11. $(5, 1)$ and $(-3, -1)$
12. $(5.3, 1)$ and $(-1.6, 3)$

Applications

13. **Cost of Milk** In 1980, a gallon of milk cost \$2.16. In 2000, the same gallon cost \$3.00. Find a linear equation that describes this relationship.
14. **Cost of Milk** How much does your relationship predict milk will cost in 2010?
15. **Temperature Conversion** 32°F is equivalent to 273° on the Kelvin scale. 212°F is equivalent to 373° Kelvin. Find a linear relationship that describes the relationship between the two measurement scales.
16. **Temperature Conversion** Find the Kelvin temperature that's equivalent to 100°F .