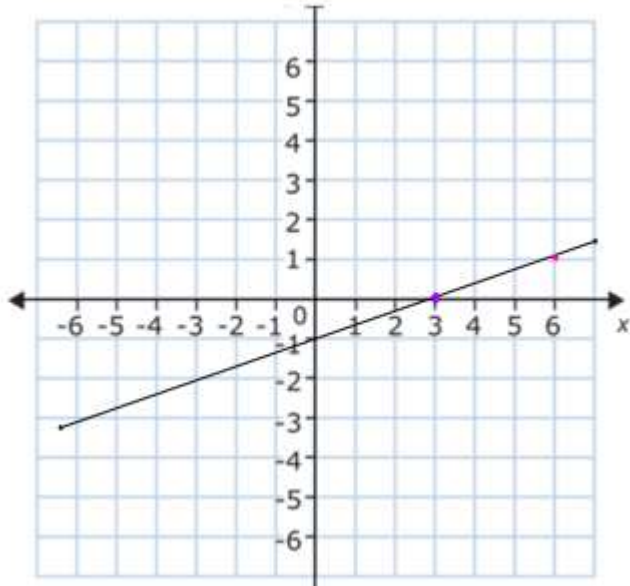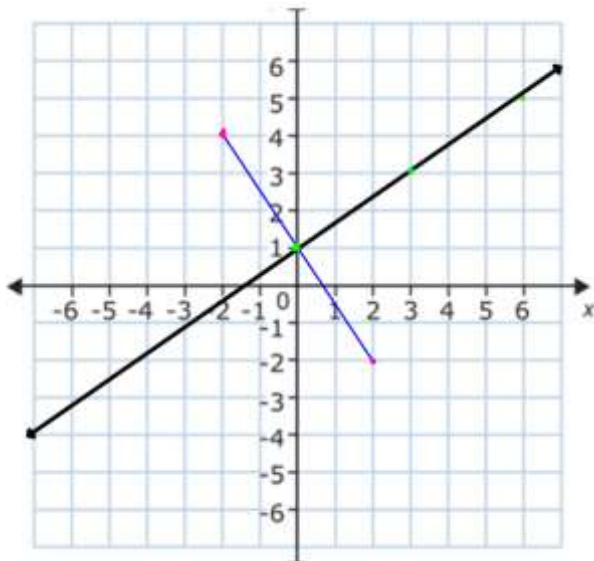1. $(2,3)$
2. $(2,-1\frac{1}{3})$ or $(2,-\frac{4}{3})$
3. 21.1 units
4. 22.5 square units

5.

6. the answer is the thick black line, the blue line is the segment being perpendicularly bisected

7. $y - 4 = -\frac{3}{2}(x + 1)$