

# Math 1513 - College Algebra

## Discussion Board Week 3 - Due 2015.06.21

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For each of the following pairs of points, perform the following:

- Find the slope of the line passing through the two points.
- Find the point-slope form of the line passing through the two points.
- Find the y-intercept of the line passing through the two points.
- Find the slope-intercept form of the line passing through the two points.

Do NOT use decimals at any point in this week's problem.

- $\left(2\pi + \sqrt{5}, \frac{\sqrt{2}}{3+\sqrt{3}}\right), \left(\sqrt{3}\pi - \frac{2}{3}, 8 + \sqrt{5}\right)$
- $\left(\frac{3\pi}{7}, \frac{2}{\sqrt{3}} - \pi\right), \left(-\sqrt{2}\pi - \sqrt{5}, \frac{1}{3-\sqrt{3}}\right)$
- $\left(\frac{\pi}{3}, \frac{\pi-1}{\pi+1}\right), \left(\frac{2}{\sqrt{3}}, \pi + \frac{1}{3}\right)$
- $\left(2 + \sqrt{7}, -3 - \sqrt{6}\right), \left(\sqrt{3}\pi + 2, \frac{2-\pi}{5}\right)$
- $\left(7\pi^2 - \sqrt{2}, \sqrt{5}\pi + \sqrt{7}\right), \left(-\sqrt{\pi}, \frac{1}{\pi}\right)$
- $\left(\frac{\pi-\sqrt{2}}{\sqrt{2}}, -6 + \sqrt{3}\right), \left(5 + \sqrt{7}, -3\sqrt{4} + \pi\right)$
- $\left(2 - \sqrt{7}\pi, \frac{-2+\pi}{1-\pi}\right), \left(\frac{1}{3+\pi^2}, \frac{-3+\pi}{2+\sqrt{2}}\right)$
- $\left(-5\pi + \sqrt{2}, \sqrt{\pi+1}\right), \left(-\frac{2+\pi}{5}, -\sqrt{13}\right)$
- $\left(6 + \sqrt{2}\pi, -\frac{2}{\sqrt{5}}\right), \left(6 - 2\pi, 4 + \sqrt{5}\right)$
- $\left(2 + \sqrt{7}, \frac{2}{-3+\pi}\right), \left(\frac{4+\sqrt{3}}{7}, -2\sqrt{3} + \frac{1}{\pi}\right)$
- $\left(-2 - \sqrt{5}, -\frac{5}{7}\right), \left(\frac{2}{\sqrt{15}} - 3, -3 + 5\pi\right)$
- $\left(\frac{2}{5}, -\frac{\pi}{3+\sqrt{22}}\right), \left(-4 + \sqrt{7}, \frac{2+\sqrt{3}}{2-\sqrt{3}}\right)$
- $\left(\frac{3}{\pi-5}, -\frac{\pi+4}{\sqrt{2}-3}\right), \left(-5 + \sqrt{5}\pi, \frac{2}{7}\right)$
- $\left(-\frac{2+\sqrt{3}}{7}, -4\pi + \sqrt{3}\right), \left(\sqrt{2}\pi, \frac{2+\pi}{2+\pi}\right)$
- $\left(\frac{5+\pi}{2}, -5 - \sqrt{2}\right), \left(\frac{1}{1+2\pi}, \sqrt{5} + 2\right)$
- $\left(\pi + \pi^2, \frac{-2+\pi}{\sqrt{3}-1}\right), \left(-\frac{2}{\pi^2}, 2\sqrt{5} + 1\right)$
- $\left(\sqrt{43} + 1, \frac{2+\pi}{3}\right), \left(-\frac{3}{2+\pi}, \sqrt{47}\pi + \pi^2\right)$
- $\left(\sqrt{3} - \sqrt{5}, \frac{2}{1+\sqrt{2}}\right), \left(\pi - \sqrt{2}, -\frac{3}{5\sqrt{2}}\right)$
- $\left(-\frac{1}{2\pi+3}, \sqrt{\pi+1} - \frac{2}{3}\right), \left(3 + \pi^2, \frac{\sqrt{p^i}}{2-\sqrt{2}}\right)$
- $\left(6 + \sqrt{3}, -\frac{2\pi}{3+\sqrt{2}}\right), \left(\frac{3+\pi}{3-\pi}, \frac{3+\sqrt{2}}{2\pi}\right)$
- $\left(\frac{3\pi}{3\pi+1}, -\sqrt{2+\pi} + 4\sqrt{3}\right), \left(-\frac{2}{\pi+1}, \frac{3\pi-1}{3\pi+1}\right)$
- $\left(\frac{2-\sqrt{3}}{2+\sqrt{3}}, 4 - \frac{2}{\pi}\right), \left(-3 + \sqrt{2}\pi, -4 + \frac{\pi}{2}\right)$
- $\left(-3 + \sqrt{6}\pi, \frac{2\pi}{2\pi+1}\right), \left(\sqrt{12} - \pi, \frac{2+\sqrt{\pi}}{\sqrt{3}-4}\right)$
- $\left(2 + \pi - \sqrt{3}, \frac{2+\pi^2}{2-\pi}\right), \left(5 + 4\sqrt{3}, 7\pi^2 + \frac{2}{\sqrt{5}}\right)$
- $\left(4 + \sqrt{5}\pi, 34 + \frac{\pi^3}{3}\right), \left(-\frac{\sqrt{5}+6\pi}{34+\pi^2}, \frac{2\pi-\sqrt{5}}{\sqrt{\pi+2}}\right)$