Accelerated Precalculus Name_____

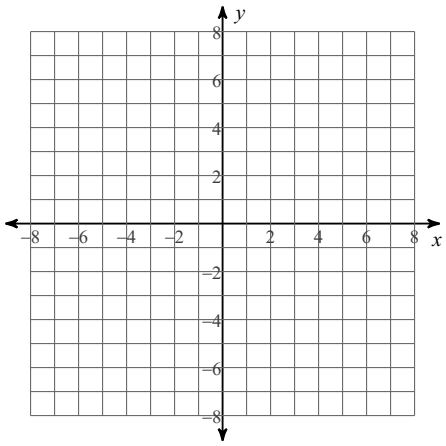


# Graphing Parametric Equations

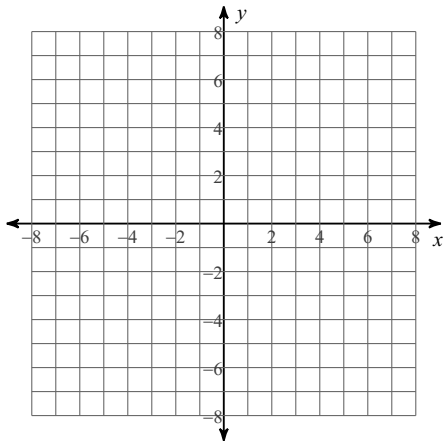
Date_____ Period____

**Sketch the curve for each pair of parametric equations.**

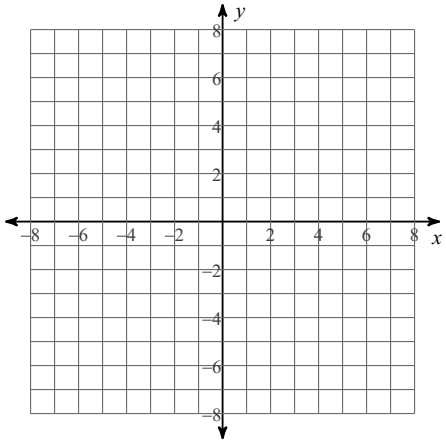
1) $x = t,\ y = \frac{t^2}{2} + 2t - 2$



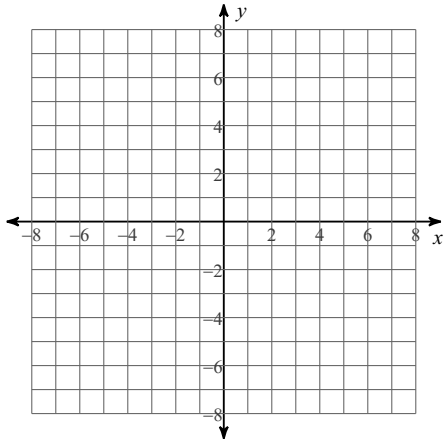

2) $x = \frac{t^2}{4} - t - 3,\ y = t$



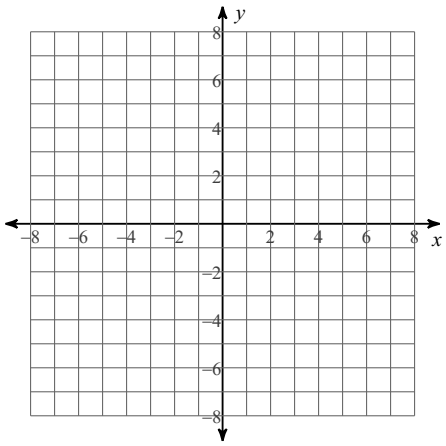

3) $x = t,\ y = \frac{t^2}{2} - t - \frac{7}{2}$



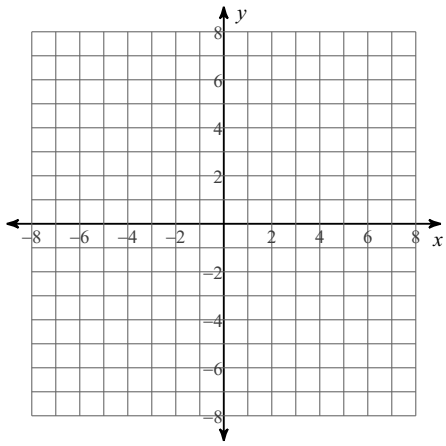

4) $x = t,\ y = -\frac{t^2}{5} - \frac{2t}{5} + \frac{4}{5},\ -6 \le t \le 5$



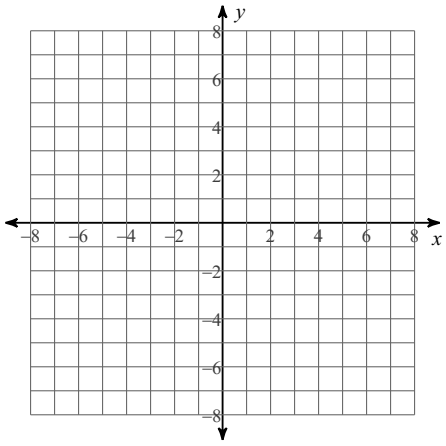
5) $x = t,\ y = -\frac{t^2}{3} + \frac{2t}{3} + \frac{2}{3},\ -3 \le t \le 5$



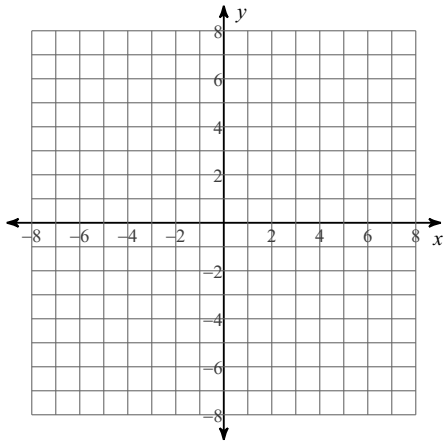

6) $x = -\frac{4t^2}{3} + 2,\ y = -2t - 2$



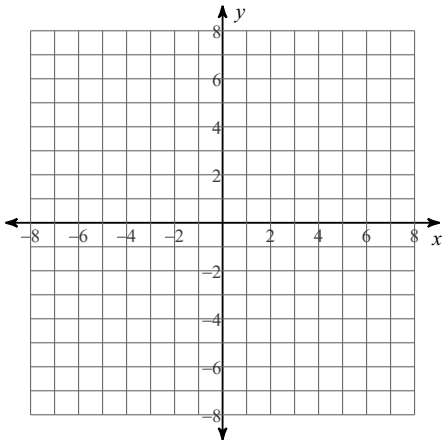

7) $x = t - 1,\ y = -\frac{t^2}{6} + \frac{2t}{3} + \frac{4}{3},\ -5 \le t \le 7$



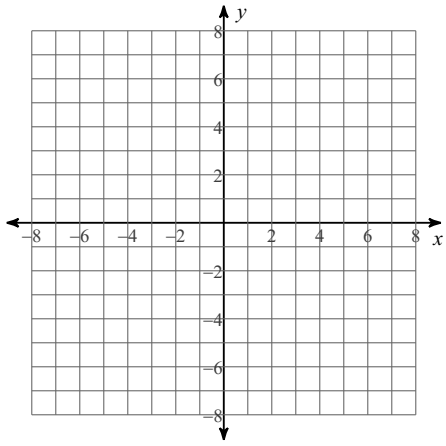

8) $x = 3t + 3,\ y = -3t^2 - 8t - \frac{13}{3},\ -2 \le t \le 0$




9) $x = \frac{9t^2}{5} - 2,\ y = -3t + 2$



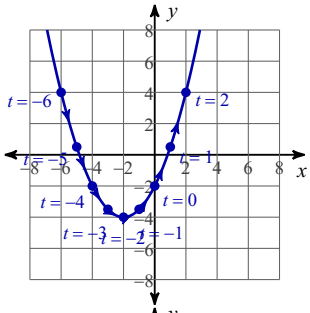

10) $x = \frac{9t^2}{2} + 12t + 5,\ y = 3t + 3$



# Answers to Graphing Parametric Equations

1)

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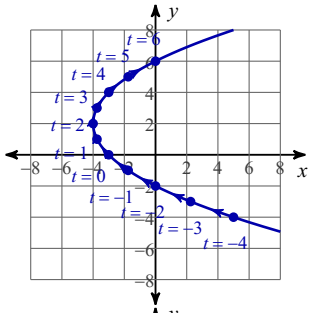


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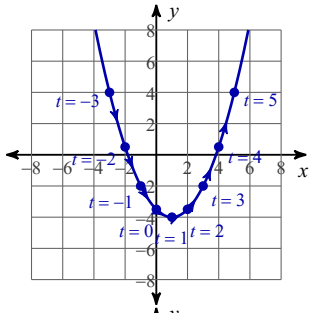
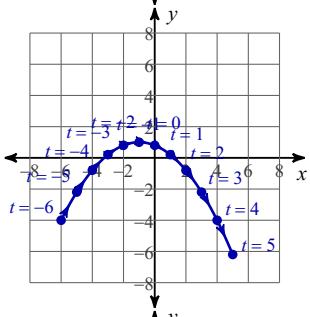
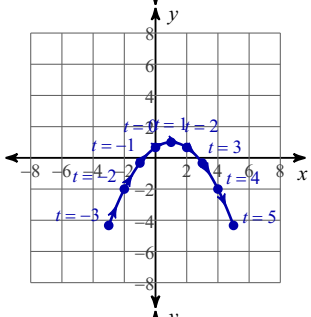


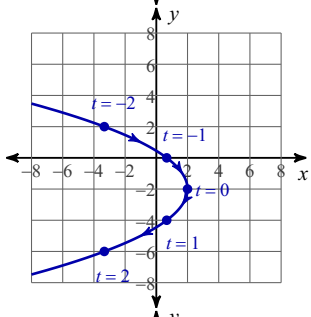

4)



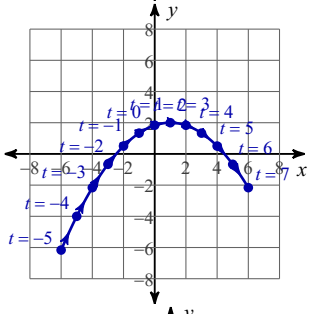

5)



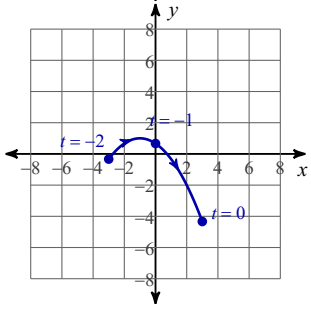

6)



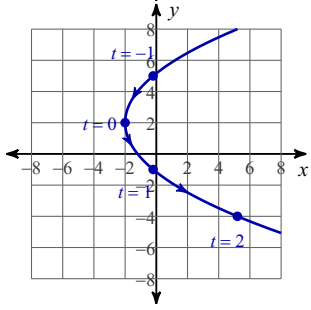

7)




8)




9)




10)