MAC1140 SEC29 HW 10-10-2007 9.2

Mr. Fei Hua (fhua@math.fsu.edu)

Due: 10-12-2007

Full Name: Sec#: Extra Credit Attempted?

1.

[9.2.3aPT]Select the equation of the parabola with focus at $(2, \frac{5}{2})$ and vertex at $(2, 3)$.

- $(y-3)^2 = -2(x-2)$
- $(x-2)^2 = -\frac{1}{2}(y-3)$
- $(x-2)^2 = -2(y-3)$
- $(x-3)^2 = -2(y-2)$
- $(x-2)^2 = 2(y-3)$
- $(y-3)^2 = -\frac{1}{2}(x-2)$

2.

[9.2.3bPT]Select the equation of the parabola with directrix $y = -\frac{5}{2}$ and vertex at $(3, -2)$.

- $(x-3)^2 = 2(y+2)$
- $(y+2)^2 = 2(x-3)$
- $(x+2)^2 = 2(y-3)$
- $(y+2)^2 = \frac{1}{2}(x-3)$
- $(x-3)^2 = -2(y+2)$
- $(x-3)^2 = \frac{1}{2}(y+2)$

3.

[9.2.3cPT]Select the equation of the parabola with focus at $(-2, \frac{3}{4})$ and directrix $y = \frac{5}{4}$.

- $(y-1)^2 = -(x+2)$
- $(x+2)^2 = -\frac{1}{4}(y-1)$
- $(x+2)^2 = (y-1)$
- $(x+2)^2 = -(y-1)$
- $(x-1)^2 = (y+2)$
- $(y-1)^2 = -\frac{1}{4}(x+2)$

4.

[9.2.3dPT]Find the focus of the parabola with equation $(x-2)^2 = -2(y-3)$

- $(2, 3)$
- $(\frac{5}{2}, 2)$
- $(2, -\frac{5}{2})$
- $(2, \frac{5}{2})$
- $(3, 2)$

5.

[9.2.3ePT]Find the directrix of the parabola with equation $(x-2)^2 = -8(y-5)$

- $x = -7$
- $y = 7$
- $y = 3$
- $y = -7$
- $x = 7$