<b>MATH 20</b>	าว
WALE Z	17.

Name:\_\_\_\_

## In class work 8

Row:\_\_\_\_

"To pay attention, this is our endless and proper work."

MARY OLIVER

1. For each of the following second degree polynomials, apply the CTS (complete the square) algorithm.

$$\boxed{1} \qquad (a) \ \ x^2 + 7x + 28$$

$$\boxed{1} \qquad \text{(b)} \ \ x^2 + 2\sqrt{2}x - 1$$

1 (c) 
$$2x^2 + 8x$$

2. Find each antiderivative.

(a) 
$$\int \frac{1}{\sqrt{x^2 + 7x + 28}} dx$$

$$\boxed{1} \qquad \text{(b) } \int \frac{1}{\sqrt{x^2 + 2\sqrt{2}x - 1}} \, \mathrm{d}x$$

$$\boxed{1} \qquad \text{(c) } \int \frac{1}{2x^2 + 8x} \, \mathrm{d}x$$