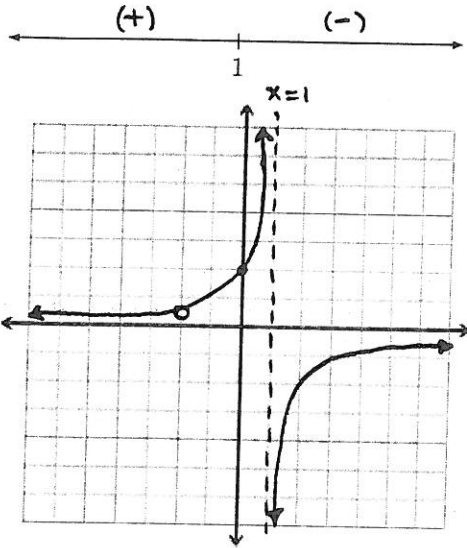


Pre-Calc AB Worksheet #60 : Answers

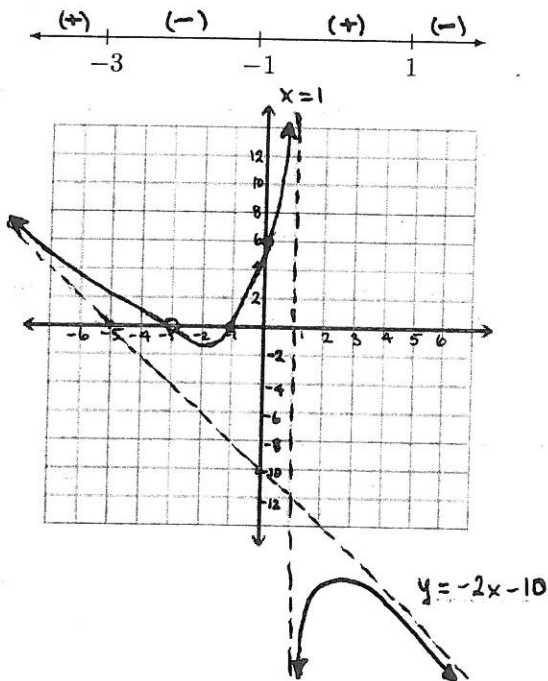
1.

Holes	$(-3, \frac{1}{2})$
Zeros	None
Multiplicities	None
V. A.	$x = 1$
HA or SA	$y = 0$
Y-intercept	$(0, 2)$



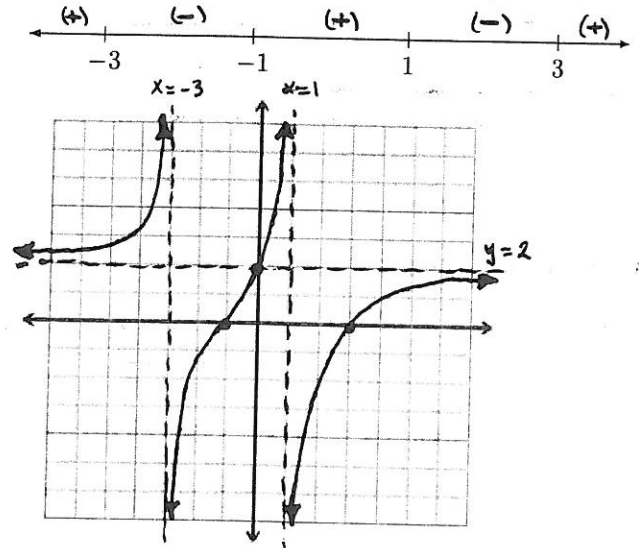
2.

Holes	$(-3, 0)$
Zeros	-1
Multiplicities	1
V. A.	$x = 1$
HA or SA	$y = -2x - 10$
Y-intercept	$(0, 6)$



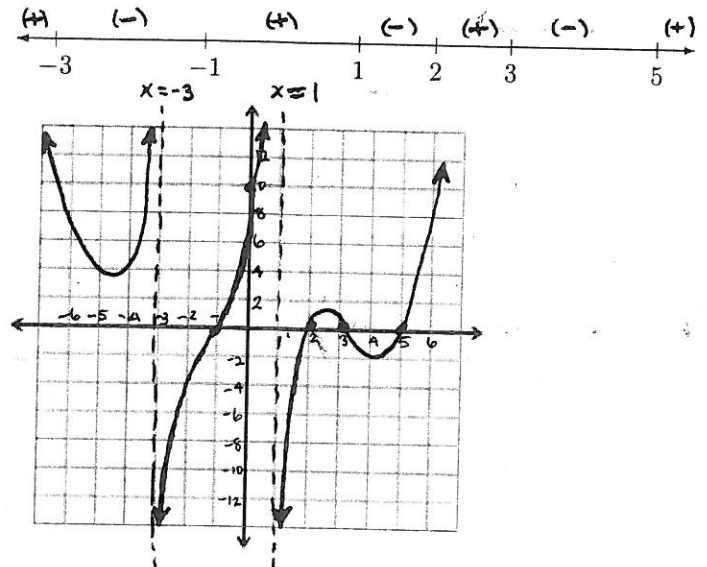
3.

Holes	None
Zeros	3 -1
Multiplicities	1 1
V. A.	$x = -3$ and $x = 1$
HA or SA	$y = 2$
Y-intercept	$(0, 2)$



4.

Holes	None
Zeros	3 2 -1 5
Multiplicities	1 1 1 1
V. A.	$x = -3$ and $x = 1$
HA or SA	None
Y-intercept	$(0, 10)$



5. Horizontal asymptote $y = \frac{a^3}{d^2}$