Student Name

Quiz 1

① 4

② 1

③ 1

④ 5

⑤ 5

⑥

x	.9	.99	.999	1.001	1.01	1.1
$f(x)$	.081	.0098	.000998	-.001	-.0102	-.121

$$\lim_{x \to 1} x^3 - x^2 = 0$$

⑦

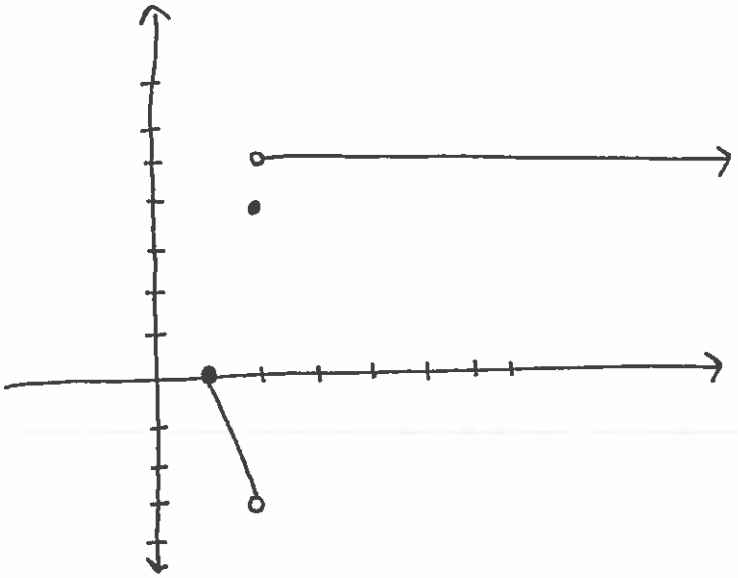
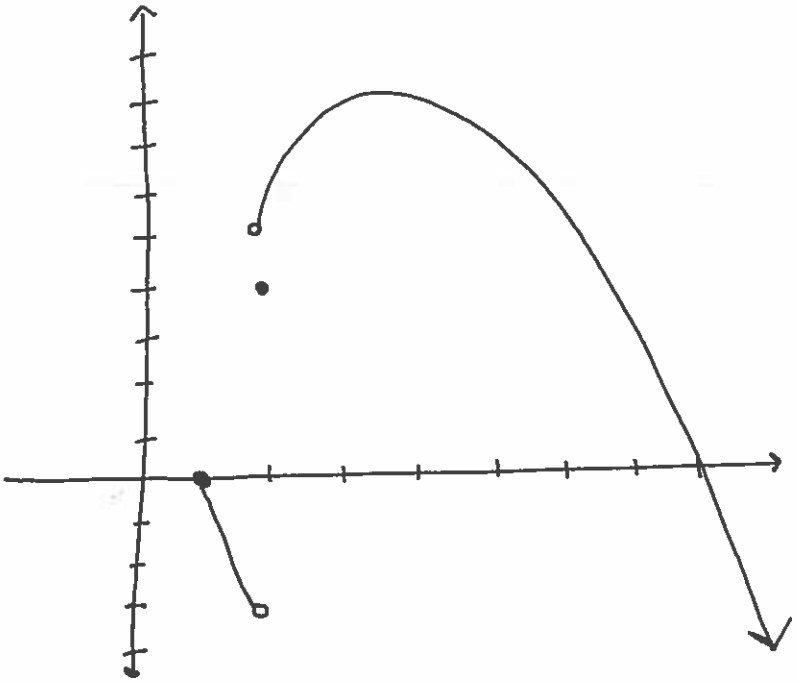
x	2.9	2.99	2.999	3.001	3.01	3.1
$f(x)$	33.691	32.98	32.908	32.891	32.816	32.011

$$\lim_{x \to 3} -4.9x^2 + 21x + 14 = 32.9$$

⑧ $\lim_{x \to 3^-} f(x) = 27$ and $\lim_{x \to 3^+} f(x) = 27$

so, $\lim_{x \to 3} f(x) = 27$

⑨ Answers will vary...



⑩