

$$1. \lim_{x \rightarrow 2} \frac{x^2 - 4}{x - 2} = \boxed{4}$$

1.9	1.99	2.01
3.9	3.99	4.01

$$3. \lim_{x \rightarrow \infty} \frac{3x + 2}{x} = \boxed{3} = \frac{\frac{3x}{x} + \frac{2}{x}}{\frac{x}{x}} = \frac{3 + 0}{1}$$

$$5. \lim_{x \rightarrow 0} \frac{\sin x}{x} = \boxed{1}$$

.1	.01	-.01
.998	.999	.999

$$7. \lim_{x \rightarrow 2} (x^2 - 5x) = \boxed{-6}$$

1.9	1.99	2.01
-5.89	-5.99	-6.0099

$$9. \lim_{x \rightarrow -1} (2x^3 + 5x^2 - 2) = \boxed{1}$$

-.9	-.99	-1.01
.592	.959	1.0398

$$11. \lim_{x \rightarrow 1} \frac{x^2 - 1}{x - 1} = \boxed{2}$$

.9	.99	1.01
1.9	1.99	2.01

$$13. \lim_{x \rightarrow \frac{3}{2}} \frac{4x^2 - 9}{2x + 3} = \boxed{-6}$$

1.45	1.495	1.505
-2.9	-2.99	-3.01
2	2	2
-5.9	-5.99	-6.01

$$15. \lim_{x \rightarrow -1} \sqrt{2x + 3} = \boxed{1}$$

-.9	-.99	-1.01
1.075	1.0099	.989

$$17. \lim_{x \rightarrow 6} \sqrt{4 - x} = \text{No } \sqrt{\text{ of Negative \#s }} = \underline{\text{No Limit}}$$



$$19. \lim_{x \rightarrow \infty} \frac{1}{2x} = \frac{\frac{1}{x}}{\frac{2x}{x}} = \frac{\frac{1}{x}}{2} = \frac{0}{2} = \boxed{0}$$

$$21. \lim_{x \rightarrow \infty} \frac{3x^2 - 5x + 2}{4x^2 + 8x - 11} = \frac{\frac{3x^2}{x^2} - \frac{5x}{x^2} + \frac{2}{x^2}}{\frac{4x^2}{x^2} + \frac{8x}{x^2} - \frac{11}{x^2}} = \frac{3 - 0 + 0}{4 + 0 - 0} = \boxed{\frac{3}{4}}$$