Source: [KBe2020math401index]

1 | Limit Laws

 $See~\tt [KBe20math401srcLimitLawsBrainstorm]. Ddf$

2 | Openstax Calculus Vol1 2.3 Exercises

• Link ## 84
$$\lim_{x \to 1} \frac{x^3 + 3x^2 + 5}{4 - 7x} = \frac{1 + 3 + 5}{4 - 7} = \frac{9}{-3} = \boxed{-3}$$
 ## 85
$$\lim_{x \to -2} \sqrt{x^2 - 6x + 3} = \sqrt{4 - (-12) + 3} = \boxed{\sqrt{19}}$$
 ## 86
$$\lim_{x \to 1} (9x + 1)^2 = (-9 + 1)^2 = \boxed{64}$$
 ## 94
$$\lim_{x \to 4} \frac{x^2 - 16}{x - 4} \Rightarrow \frac{0}{4 - 4} = \frac{0}{0}$$

$$= \lim_{x \to 2} \frac{x - 2}{x(x - 2)} = \lim_{x \to 2} \frac{1}{x}$$