Source:

#source openstax calculus volume 1 section 2.4 exercises

1 | 131

$$x \leq 0 \implies \boxed{\mathsf{infinite}}$$

2 | 132

no discontinuities

3 | 140

Infinite discontinuity
$$\frac{-1}{0}$$

4 | 141

$$\boxed{ \text{Continuous} \left(\frac{(2u-1)(3u+2)}{2u-1} \right) }$$

5 **| 145**

$$3x + 2 = 2x - 3 \implies \boxed{x = -5}$$

6 | 150

The function is not continuous at x=2

7 | 152

7.1 | **a**

$$\cos t = t^3$$

7.2 | **b**

Let
$$f(x) = \cos x$$
 and $g(x) = x^3.$ For $a = 0$ and $b = \frac{\pi}{2}$:

$$f(a) = g(a) = 0 f(b \implies (\cos t)^{\frac{1}{3}}$$

Exr0n · 2020-2021