

Name: _____

Evaluate the Expressions

∞ Single and Multi-variable ∞

Evaluate the algebraic expressions for the given values of each variables.

1. $\frac{3}{s-t} - 1$ at $s = 2, t = -6$

2. $\frac{x+1}{y^2}$ at $x = 8, y = \frac{3}{5}$

3. $\frac{3}{u}(u^2 + 68)$ at $u = -12$

4. $21r(63r + 3)$ at $r = -\frac{3}{7}$

5. $6n^2 + 4n^2 - 19$ at $n = -3$

6. $\frac{12q - 34}{4}$ at $q = -\frac{1}{3}$

7. $\frac{5t}{3t-s} - 1$ at $s = 2, t = -6$

8. $\frac{s-4}{t^2}$ at $s = 5, t = -5$

9. $\frac{6q-g}{4}$ at $q = -4, g = 1$

10. $(10p - 4)^2$ at $p = 2$

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Evaluate the Expressions

∞ Single and Multi-variable ∞

Answers

1. $\frac{3}{s-t} - 1$ at $s = 2, t = -6$

$-\frac{5}{8}$

2. $\frac{x+1}{y^2}$ at $x = 8, y = \frac{3}{5}$

25

3. $\frac{3}{u}(u^2 + 68)$ at $u = -12$

-53

4. $21r(63r + 3)$ at $r = -\frac{3}{7}$

216

5. $6n^2 + 4n^2 - 19$ at $n = -3$

-145

6. $\frac{12q - 34}{4}$ at $q = -\frac{1}{3}$

$-\frac{19}{2}$

7. $\frac{5t}{3t-s} - 1$ at $s = 2, t = -6$

$\frac{1}{2}$

8. $\frac{s-4}{t^2}$ at $s = 5, t = -5$

$\frac{1}{25}$

9. $\frac{6q-g}{4}$ at $q = -4, g = 1$

$-\frac{25}{4}$

10. $(10p - 4)^2$ at $p = 2$

256