**Evaluate the expression for the given value of the variable.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | $$t^{2}-11 when t=3$$ |  | $$1+4x^{3} when x=1$$ |
|  | $$2a^{2}+5a when a=4$$ |  | $$8⋅p^{3}+1 when p=1$$ |
|  | $$\frac{44}{x}÷2+10 when x=11$$ |  | $$13+3c when c=2$$ |
|  | $$\left(y-11\right)÷4 when y=23$$ |  | $$\frac{x}{7}+10 when x=21$$ |
|  | $$2⋅5y when y=1$$ |  | $$\frac{4}{5}÷n+100 when n=\frac{1}{5}$$ |
|  | $$\frac{16}{x}-2 when x=4$$ |  | $$y^{4}÷8 when y=4$$ |

**Evaluate the expression for the given value of the variable.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | $$\frac{10⋅2}{4+x^{2}-1} when x=1$$ |  | $$\frac{12y-4}{18-y^{2}+10} when y=4$$ |
|  | $$\frac{2z^{3}-18}{1+s^{2}-8} when z=1 and s=2$$ |  |  |

**ANSWER**

**Evaluate the expression for the given value of the variable.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | $$t^{2}-11 when t=3$$$$=3^{2}-11$$$$=9-11$$$$=-2$$ |  | $$1+4x^{3} when x=1$$$$=1+4⋅1^{3}$$$$=1+4⋅1$$$$=1+4$$$$=5$$ |
|  | $$2a^{2}+5a when a=4$$$$=2.4^{2}+5⋅4$$$$=32+20$$$$=52$$ |  | $$8⋅p^{3}+1 when p=1$$$$=8⋅1^{3}+1$$$$=8+1$$$=9$ |
|  | $$\frac{44}{x}÷2+10 when x=11$$$$=\frac{44}{11}÷2+10$$$$=4÷2+10$$$$=\frac{4}{2}+10$$$$=2+10$$$=12$ |  | $$13+3c when c=2$$$$=13+3\left(2\right)$$$$=13+6$$$$=19$$ |
|  | $$\left(y-11\right)÷4 when y=23$$$$=\left(23-11\right)÷4$$$$=12÷4$$$$=\frac{12}{4}$$$=3$ |  | $$\frac{x}{7}+10 when x=21$$$$=\frac{21}{7}+10$$$$=3+10$$$$=13$$ |
|  | $$2⋅5y when y=1$$$$=2⋅5⋅1$$$$=10⋅1$$$$=10$$ |  | $$\frac{4}{5}÷n+100 when n=\frac{1}{5}$$$$=\frac{4}{5}÷\frac{1}{5}+100$$$=\frac{4}{5}⋅\frac{5}{1}+100$$=4+100=104$ |
|  | $$\frac{16}{2x}-10 when x=4$$$$=\frac{16}{2(4)}-10$$$$=2-10$$$$=-8$$ |  | $$d^{2}÷8 when d=4$$$$=4^{4}÷8$$$$=16÷8$$$$=\frac{16}{8}$$$$=2$$ |

**Evaluate the expression for the given value of the variable.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | $$\frac{10⋅2}{4+x^{2}-1} when x=1$$$$=\frac{20}{4+1^{2}-1}$$$$=\frac{20}{4+1-1}$$$$=\frac{20}{4}$$$$=5$$ |  | $$\frac{12y-4}{18-y^{2}+10} when y=4$$$$=\frac{12⋅4-4}{18-4^{2}+10}$$$$=\frac{48-4}{28-16}$$$$=\frac{44}{12}$$$$=\frac{11}{3}$$ |
|  | $$\frac{2z^{3}-18}{1+s^{2}-8} when z=1 and s=2$$$$=\frac{2⋅1^{3}-18}{1+2^{2}-8}$$$$=\frac{2⋅1-18}{4-7}$$$$=\frac{2-18}{-3}$$$$=\frac{-16}{-3}$$$$=\frac{16}{3}$$ |  |  |