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

|  |  |  |  |
| --- | --- | --- | --- |
|  | $$x^{4}-3 when x=2$$ |  | $$3+2x^{3} when x=2$$ |
|  | $$a^{3}+10a when a=3$$ |  | $$6⋅2p^{2}+8 when p=5$$ |
|  | $$\frac{22}{x}÷2+16 when x=11$$ |  | $$13+3b when b=7$$ |
|  | $$\left(x-5\right)÷4 when x=9$$ |  | $$\frac{x}{7}+16 when x=14$$ |
|  | $$5⋅6y when y=5$$ |  | $$\frac{4}{5}÷n+13 when n=\frac{1}{5}$$ |
|  | $$\frac{16}{x}-2 when x=4$$ |  | $$y^{4}÷8 when y=4$$ |

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | $$\frac{9⋅2}{4+x^{2}-1} when x=3$$ |  | $$\frac{13y-4}{18-y^{2}+1} when y=4$$ |
|  | $$\frac{2z^{3}-18}{1+s^{2}-8} when z=5 and s=6$$ |  |  |

**ANSWER**

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | $$x^{4}-3 when x=2$$$$=2^{4}-3$$$$=16-3$$$$=13$$ |  | $$3+2x^{3} when x=2$$$$=3+2⋅2^{3}$$$$=3+2⋅8$$$$=3+16$$$$=19$$ |
|  | $$a^{3}+10a when a=3$$$$=3^{3}+10⋅3$$$$=27+30$$$$=57$$ |  | $$6⋅2p^{2}+8 when p=5$$$$=6⋅2⋅5^{2}+8$$$$=12⋅25+8$$$$=300+8$$$$=308$$ |
|  | $$\frac{22}{x}÷2+16 when x=11$$$$=\frac{22}{11}÷2+16$$$$=2÷2+16$$$$=\frac{2}{2}+16$$$$=1+16$$$$=17$$ |  | $$13+3b when b=7$$$$=13+3\left(7\right)$$$$=13+21$$$$=34$$ |
|  | $$\left(x-5\right)÷4 when x=9$$$$=\left(9-5\right)÷4$$$$=4÷4$$$$=\frac{4}{4}$$$$=1$$ |  | $$\frac{x}{7}+16 when x=14$$$$=\frac{14}{7}+16$$$$=2+16$$$$=18$$ |
|  | $$5⋅6y when y=5$$$$=5⋅6⋅5$$$$=30⋅5$$$$=150$$ |  | $$\frac{4}{5}÷n+13 when n=\frac{1}{5}$$$$=\frac{4}{5}÷\frac{1}{5}+13$$$$=\frac{4}{5}⋅\frac{5}{1}+13$$$$=4+13$$$$=17$$ |
|  | $$\frac{16}{x}-2 when x=4$$$$=\frac{16}{4}-2$$$$=4-2$$$$=2$$ |  | $$y^{4}÷8 when y=4$$$$=4^{4}÷8$$$$=256÷8$$$$=\frac{256}{8}$$$$=32$$ |

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | $$\frac{9⋅2}{4+x^{2}-1} when x=3$$$$=\frac{18}{4+3^{2}-1}$$$$=\frac{18}{3+9}$$$$=\frac{18}{12}$$$$=\frac{3}{2}$$ |  | $$\frac{13y-4}{18-y^{2}+1} when y=4$$$$=\frac{13⋅4-4}{18-4^{2}+1}$$$$=\frac{52-4}{19-16}$$$$=\frac{48}{3}$$$$=16$$ |
|  | $$\frac{2z^{3}-18}{1+s^{2}-8} when z=5 and s=6$$$$=\frac{2⋅5^{3}-18}{1+6^{2}-8}$$$$=\frac{2⋅125-18}{36-7}$$$$=\frac{250-18}{29}$$$$=\frac{232}{29}$$$$=8$$ |  |  |