Ph3 Set 1

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In[1]:= `2 + 2`

Out[1]= `4`

In[9]:= `a = 22 / 7`
`b = Pi`
`N[(a - b) / b]`

Out[9]= $\dfrac{22}{7}$

Out[10]= π

Out[11]= `0.000402499`

In[12]:= `N[(Sqrt[10] - Pi) / Pi, 4]`
`N[(Sqrt[10] - Pi) / Pi, 40]`
`N[(Sqrt[10] - Pi) / Pi, 400]`

Out[12]= `0.006584`

Out[13]= `0.0065842420897407007245506028549287740326892368`

Out[14]= `0.0065842420897407007245506028549287740326892368345629525303925206438903698837497`
`5015310224201786162130667676948566991020494324766750805887181497255292074213199823`
`4396659673529654799029975048036675393213280532436045692160339112025616516307880123`
`7962970618240105871838646929184402353049818802564585041955227094059053978795084923`
`4765431023728680796077621128159712723031165315446211876203675028032161479654322423`
`128`

In[15]:= `firstfive = {1, 2, 3, 4, 5}`
`firstfive[[5]]`
`firstfive[[2]] = Pi`
`firstfive`

Out[15]= `{1, 2, 3, 4, 5}`

Out[16]= `5`

Out[17]= π

Out[18]= `{1, `π`, 3, 4, 5}`

In[19]:= `squares = Table[{i, Sqrt[i]}, {i, 1, 10}]`

Out[19]= $\left\{\{1, 1\}, \left\{2, \sqrt{2}\right\}, \left\{3, \sqrt{3}\right\}, \{4, 2\}, \left\{5, \sqrt{5}\right\},\right.$
$\left.\left\{6, \sqrt{6}\right\}, \left\{7, \sqrt{7}\right\}, \left\{8, 2\sqrt{2}\right\}, \{9, 3\}, \left\{10, \sqrt{10}\right\}\right\}$

In[20]:= `TableForm[N[squares, 3]]`

Out[20]//TableForm=

1.00	1.00
2.00	1.41
3.00	1.73
4.00	2.00
5.00	2.24
6.00	2.45
7.00	2.65
8.00	2.83
9.00	3.00
10.0	3.16