tf.truediv

```
truediv(
    x,
    y,
    name=None
)
```

Defined in `tensorflow/python/ops/math_ops.py`.

See the guide: Math > Arithmetic Operators

Divides x / y elementwise (using Python 3 division operator semantics).

NOTE: Prefer using the Tensor operator or tf.divide which obey Python division operator semantics.

This function forces Python 3 division operator semantics where all integer arguments are cast to floating types first. This op is generated by normal `x / y` division in Python 3 and in Python 2.7 with `from __future__ import division`. If you want integer division that rounds down, use `x // y` or `tf.floordiv`.

`x` and `y` must have the same numeric type. If the inputs are floating point, the output will have the same type. If the inputs are integral, the inputs are cast to `float32` for `int8` and `int16` and `float64` for `int32` and `int64` (matching the behavior of Numpy).

Args:

- `x`: `Tensor` numerator of numeric type.
- `y`: `Tensor` denominator of numeric type.
- `name`: A name for the operation (optional).

Returns:

`x / y` evaluated in floating point.

Raises:

- `TypeError`: If `x` and `y` have different dtypes.

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